75-11 HS Hardener Fast

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
3.0	13.11.2025	000000000050799598	Date of first issue: 24.12.2024

Section 1: Identification

Product name : 75-11 HS Hardener Fast

Product code : 000000000050799598

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
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Auckland 1026
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Emergency contact

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Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2

Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P284 Wear respiratory protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	Not Assigned	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2	>= 25 -< 30

			Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 10 -< 20
isophorone diisocyanate (IPDI) polymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2	>= 2.5 -< 10

			Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
4-toluenesulphonyl isocyanate	p-toluenesulphonyl isocyanate	4083-64-1	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Respiratory sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 0.1 -< 1

Section 4: First-aid measures

General advice	:	Keep patient warm and at rest. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Never give anything by mouth to an unconscious person. Move out of dangerous area. First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately.
In case of skin contact	:	Call a physician immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	:	If easy to do, remove contact lens, if worn. Call a physician immediately. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard.

Keep at rest.

If swallowed, call a poison control center or doctor immediately.

Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Risk of product entering the lungs on vomiting after ingestion.

When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

Notes to physician : Treat symptomatically.
No known specific antidote.

Section 5: Fire-fighting measures

Suitable extinguishing media : Dry powder

Carbon dioxide (CO_2)

Water spray

Foam

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water

(95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

		Handle in accordance with good industrial hygiene and safety practice. Open drum carefully as content may be under pressure. Do not breathe vapors or spray mist. Protect from moisture.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions.
Materials to avoid	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up

could result in distortion, blowing and in extreme cases bursting of the container.

Packaging material : Suitable material: Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	Not Assigned	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
n-Butyl acetate	123-86-4	WES-STEL	200 ppm	NZ OEL

			950 mg/m3	
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH
4-toluenesulphonyl isocyanate	4083-64-1	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166

Skin and body protection	:	chemical-resistant disposable coveralls Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Persons with a history of allergies, asthma, recurrent or chronic respiratory disease must not be employed in any process in which this product is used. Persons using this product should undergo lung function tests at regular intervals. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. Respiratory protective equipment should be worn by spray booth operatives. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	specific
pH	:	substance/mixture reacts with water

Melting point/ range	:	not determined
Boiling point/boiling range	:	135 - 195 °C Method: calculated
Flash point	:	24 °C
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	6 hPa (20 °C) not determined (50 °C)
Density	:	0.980 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined

Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	not determined
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6 mm2/s (23 °C) not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.

Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct contact with water. Heat, flames and sparks. Avoid direct sunlight.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Isocyanates Hydrogen cyanide (hydrocyanic acid)

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Skin corrosion/irritation

Causes skin irritation.

Components:

n-Butyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8

GLP: yes

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes

4-toluenesulphonyl isocyanate:

Partition coefficient: n-octanol/water	:	log Pow: 0.6 (30 °C) Method: OECD Test Guideline 117 GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up). Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

Contaminated packaging	:	Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	13.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices

NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United

Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

75-12 HS Hardener Normal

Version	Revision Date:	SDS Number:	Date of last issue: 03.06.2025
4.0	13.11.2025	000000000050799600	Date of first issue: 24.12.2024

Section 1: Identification

Product name : 75-12 HS Hardener Normal

Product code : 000000000050799600

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
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Auckland 1026
New Zealand
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Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye : Category 2

irritation

Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P284 Wear respiratory protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	Not Assigned	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 50 -< 70
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye	>= 20 -< 25

			damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 10 -< 20
1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity	>= 2.5 -< 10

			(Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
4-toluenesulphonyl isocyanate	p-toluenesulphonyl isocyanate	4083-64-1	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Respiratory sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 0.1 -< 1

Section 4: First-aid measures

General advice : First aid personnel should pay attention to their own safety.
Immediately remove contaminated clothing.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.
Keep patient warm and at rest.
Symptoms of poisoning may occur even after several hours,

		continue medical observation for at least 48 hours after the accident. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately.
In case of skin contact	:	Call a physician immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	:	Call a physician immediately. If easy to do, remove contact lens, if worn. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. When inhaled (e.g. during vomiting) risk of pulmonary oedema

and/or pneumonia.

Risk of product entering the lungs on vomiting after ingestion.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO_2)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.
Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Open drum carefully as content may be under pressure. Do not breathe vapors or spray mist.

		Protect from moisture.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions.
Materials to avoid	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	Not Assigned	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL

		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH
4-toluenesulphonyl isocyanate	4083-64-1	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI

		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166
Skin and body protection	:	chemical-resistant disposable coveralls Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily

accessible.

Persons with a history of allergies, asthma, recurrent or chronic respiratory disease must not be employed in any process in which this product is used. Persons using this product should undergo lung function tests at regular intervals.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	specific
pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
Boiling point/boiling range	:	135 - 195 °C Method: calculated

Flash point	:	24 °C
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	6 hPa (20 °C) not determined (50 °C)
Density	:	1 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C

Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct contact with water.
		Avoid direct sunlight.

Heat, flames and sparks.

Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Isocyanates Nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid)

Section 11: Toxicological information

Acute toxicity

Harmful if inhaled.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: 19.8 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Skin corrosion/irritation

Causes skin irritation.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers:

Partition coefficient: n- : log Pow: 9.81 (25 °C)

octanol/water

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C)

pH: 7.8

GLP: yes

4-toluenesulphonyl isocyanate:

Partition coefficient: n-octanol/water : log Pow: 0.6 (30 °C)

Method: OECD Test Guideline 117

GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Residues in empty containers should be neutralised with decontaminant (see section 6).

Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	13.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit

NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

We create chemistry

Safety data sheet

1. Substance/preparation and manufacturer/supplier identification

Product name:
75-13 HS Hardener Slow

Use: hardener

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:
Acute toxicity: Cat.4 (Inhalation - vapour)
Skin corrosion/irritation: Cat.3
Skin sensitization: Cat.1
Specific target organ toxicity — single exposure: Cat.3 (May cause drowsiness and dizziness.)
Hazardous to the aquatic environment - acute: Cat.3
Flammable liquids: Cat.3

Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

polyisocyanate, organic solvent

Hazardous ingredients

(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers

Content (W/W): >= 50 % - < 75 %	Acute Tox.: Cat. 4 (Inhalation - mist)
CAS Number: 28182-81-2	Skin Sens.: Cat. 1
	STOT SE: Cat. 3 (irr. to respiratory syst.)

1-methoxy-2-propylacetate

Content (W/W): >= 20 % - < 25 %	Flam. Liq.: Cat. 3
CAS Number: 108-65-6	STOT SE: Cat. 3 (drowsiness and dizziness)

n-Butyl acetate

Content (W/W): >= 15 % - < 20 %	Flam. Liq.: Cat. 3
CAS Number: 123-86-4	STOT SE: Cat. 3 (drowsiness and dizziness)
	Aquatic Acute: Cat. 3

xylene

Content (W/W): >= 5 % - < 7 %	Asp. Tox.: Cat. 1
CAS Number: 1330-20-7	Flam. Liq.: Cat. 3
	Acute Tox.: Cat. 5 (Inhalation - vapour)
	Acute Tox.: Cat. 5 (oral)
	Skin Corr./Irrit.: Cat. 2
	Eye Dam./Irrit.: Cat. 2B
	STOT SE: Cat. 3 (irr. to respiratory syst.)
	STOT RE (Central nervous system, Liver, Kidney): Cat. 2
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 3

ethylbenzene

Content (W/W): >= 1 % - < 2 %	Asp. Tox.: Cat. 1
CAS Number: 100-41-4	Flam. Liq.: Cat. 2
	Acute Tox.: Cat. 4 (Inhalation - vapour)
	Acute Tox.: Cat. 5 (oral)
	STOT RE (Auditory organ): Cat. 2
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 3

4-toluenesulphonyl isocyanate

Content (W/W): >= 0.3 % - < 0.5 %	Acute Tox.: Cat. 5 (oral)
CAS Number: 4083-64-1	Skin Corr./Irrit.: Cat. 2
	Eye Dam./Irrit.: Cat. 2A
	Resp. Sens.: Cat. 1
	STOT SE: Cat. 3 (irr. to respiratory syst.)
	Aquatic Acute: Cat. 3

1,6-hexamethylene diisocyanate

Content (W/W): >= 0.1 % - < 0.2 %	Acute Tox.: Cat. 4 (oral)
CAS Number: 822-06-0	Acute Tox.: Cat. 1 (Inhalation - mist)
	Skin Corr./Irrit.: Cat. 2
	Eye Dam./Irrit.: Cat. 2A
	Resp. Sens.: Cat. 1
	Skin Sens.: Cat. 1
	STOT SE: Cat. 3 (irr. to respiratory syst.)

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Flush with copious amounts of water for at least 15 minutes. Immediate medical attention required.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Keep at rest. Rinse mouth immediately with water.

Note to physician:
Symptoms: allergic symptoms, dazed state, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Treatment: Symptomatic treatment (decontamination, vital functions).
Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
nitrogen oxides
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:
Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:
Do not allow to enter drains or waterways.If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13). Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Care should be taken when reopening partly used containers (pressurization!). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Keep away from strongly acid and stongly alkaline materials, from oxidizing agents, amines, alcohols and water.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

8. Exposure controls and personal protection

Components with occupational exposure limits

ethylbenzene, 100-41-4;
TWA value 20 ppm (ACGIHTLV)
TWA value 88 mg/m3 ; 20 ppm (OEL (NZ))
STEL value 176 mg/m3 ; 40 ppm (OEL (NZ))
Skin Designation (OEL (NZ))
Skin absorption can be significant.

n-Butyl acetate, 123-86-4;
STEL value 150 ppm (ACGIHTLV)
TWA value 50 ppm (ACGIHTLV)
TWA value 713 mg/m3 ; 150 ppm (OEL (NZ))
STEL value 950 mg/m3 ; 200 ppm (OEL (NZ))

1,6-hexamethylene diisocyanate, 822-06-0;
TWA value 0.005 ppm (ACGIHTLV)
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor

xylene, 1330-20-7;
TWA value 20 ppm (ACGIHTLV)
TWA value 217 mg/m3 ; 50 ppm (OEL (NZ))

4-toluenesulphonyl isocyanate, 4083-64-1;

TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers, 28182-81-2;
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

Personal protective equipment

Respiratory protection:
Suitable respiratory protection: e.g. full face mask with AB2P3 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
butyl rubber gloves - material thickness: 0.5 mm
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)
Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:
chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. Respiratory protective equipment should be worn by spray booth operatives. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	specific	
pH value:		
	substance/mixture reacts violently with water	
Melting point:		
	not determined	
onset of boiling:	135 °C	(calculated)
Flash point:	24 °C	
Flammability (solid/gas):	Flammable liquid and vapour.	
Lower explosion limit:	36 g/m3	
Ignition temperature:	> 200 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Self heating ability:	It is not a material capable of spontaneous heating	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	6.00 hPa (20 °C)	(calculated)
	(50 °C) not determined	

Density:	1.000 g/cm3 (20 °C)	
Relative vapour density (air):	Heavier than air.	
Solubility in water:	Reacts with water.	
Miscibility with water:	immiscible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Viscosity, kinematic:	6.0 mm2/s (23 °C)	
	(40 °C) No data available.	
Flow time:	< 30 s (23 °C)	(DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid direct contact with water. Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Hazardous reactions:
Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

Reactivity:
No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Of moderate toxicity after short-term inhalation.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Symptoms

allergic symptoms dazed state dizziness Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:
The liquid splashed in the eyes may cause irritation and reversible damage. Skin contact causes slight irritation.

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Based on available data, the classification criteria are not met.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Harmful to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: ethylbenzene
Elimination information:
70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: n-Butyl acetate
Elimination information:
80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Information on: xylene
Elimination information:
87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: 4-toluenesulphonyl isocyanate
Elimination information:
86 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge, domestic, non-adapted)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.
Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
Residues in empty containers should be neutralised with decontaminant (see section 6).

14. Transport Information

Domestic transport:

UN number or ID number:	UN 1866
UN proper shipping name:	RESIN SOLUTION
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Further information
Hazchem Code:3Y
IERG Number:14

Sea transport
IMDG

UN number or ID number:	UN 1866
UN proper shipping name:	RESIN SOLUTION
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for	EmS: F-E; S-E

user:

Air transport
IATA/ICAO

UN number or ID number:	UN 1866
UN proper shipping name:	RESIN SOLUTION
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
A certified handler is not required for the handling of this substance.
Tracking requirements do not apply to this substance.

HSNO Approval Number HSR002662
Surface Coatings and Colourants (Flammable) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components.Restricted to professional users.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

We create chemistry

Safety data sheet

1. Substance/preparation and manufacturer/supplier identification

75-45 2K Primer Filler Hardener

Use: hardener

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:
Skin corrosion/irritation: Cat. 2
Serious eye damage/eye irritation: Cat. 2A
Aspiration hazard: Cat. 1
Skin sensitization: Cat. 1
Specific target organ toxicity — single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)
Specific target organ toxicity — repeated exposure: Cat. 2
Hazardous to the aquatic environment - acute: Cat. 3
Flammable liquids: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:
Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical attention.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

polyisocyanate, organic solvent

Hazardous ingredients

ethylbenzene

Content (W/W): >= 3 % - < 5 %	Asp. Tox.: Cat. 1
CAS Number: 100-41-4	Flam. Liq.: Cat. 2
	Acute Tox.: Cat. 4 (Inhalation - vapour)
	Acute Tox.: Cat. 5 (oral)
	STOT RE (Auditory organ): Cat. 2
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 3

n-Butyl acetate

Content (W/W): >= 20 % - < 25 %	Flam. Liq.: Cat. 3
CAS Number: 123-86-4	STOT SE: Cat. 3 (drowsiness and dizziness)
	Aquatic Acute: Cat. 3

ethyl acetate

Content (W/W): >= 15 % - < 20 %	Flam. Liq.: Cat. 2
CAS Number: 141-78-6	Eye Dam./Irrit.: Cat. 2A
	STOT SE: Cat. 3 (drowsiness and dizziness)

xylene

Content (W/W): >= 10 % - < 12.5 %	Asp. Tox.: Cat. 1 Flam. Liq.: Cat. 3
CAS Number: 1330-20-7	Acute Tox.: Cat. 5 (Inhalation - vapour) Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 2B STOT SE: Cat. 3 (irr. to respiratory syst.) STOT RE (Central nervous system, Liver, Kidney): Cat. 2 Aquatic Acute: Cat. 2 Aquatic Chronic: Cat. 3

TDI-polymer

Content (W/W): >= 30 % - < 50 %	Skin Sens.: Cat. 1
CAS Number: 53317-61-6	Eye Dam./Irrit.: Cat. 2A

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:
Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Keep at rest. Rinse mouth immediately with water.

Note to physician:
Symptoms: Eye irritation, aspiration pneumonia, allergic symptoms, dazed state, skin irritation, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: If swallowed, in the event of vomiting, risk of product entering the lungs. When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.
Treatment: Symptomatic treatment (decontamination, vital functions).
Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
nitrogen oxides
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:
Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions:
Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13). Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Care should be taken when reopening partly used containers (pressurization!). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Keep away from strongly acid and stongly alkaline materials, from oxidizing agents, amines, alcohols and water.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions.

8. Exposure controls and personal protection

Components with occupational exposure limits

ethylbenzene, 100-41-4;
TWA value 20 ppm (ACGIHTLV)
TWA value 434 mg/m3 ; 100 ppm (OEL (NZ))
STEL value 543 mg/m3 ; 125 ppm (OEL (NZ))

n-Butyl acetate, 123-86-4;
STEL value 150 ppm (ACGIHTLV)
TWA value 50 ppm (ACGIHTLV)
TWA value 713 mg/m3 ; 150 ppm (OEL (NZ))
STEL value 950 mg/m3 ; 200 ppm (OEL (NZ))

ethyl acetate, 141-78-6;
TWA value 400 ppm (ACGIHTLV)
TWA value 720 mg/m3 ; 200 ppm (OEL (NZ))

xylene, 1330-20-7;
TWA value 100 ppm (ACGIHTLV)
STEL value 150 ppm (ACGIHTLV)
TWA value 217 mg/m3 ; 50 ppm (OEL (NZ))

Personal protective equipment

Respiratory protection:
Suitable respiratory protection: e.g. half-mask with A2P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
butyl rubber gloves - material thickness: 0.5 mm

Eye protection:
Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:
chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. This can be achieved by the use of local exhaust ventilation and good general extraction. Respiratory protective equipment should be worn by spray booth operatives. Ensure adequate ventilation. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	product specific

pH value:	substance/mixture reacts violently with water	
Melting point:	not determined	
onset of boiling:	not determined	
Flash point:	25 °C	
Flammability (solid/gas):	Flammable liquid and vapour.	
Lower explosion limit:	36.0 %(V)	
Ignition temperature:	not determined	
Self heating ability:	It is not a substance capable of spontaneous heating.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	5.00 hPa (20 °C) (50 °C) not determined	(calculated)
Density:	0.970 g/cm3 (20 °C)	
Miscibility with water:	immiscible	
Viscosity, kinematic:	(40 °C) not determined 6.0 mm2/s (20 °C)	
Flow time:	< 30 s	(DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid direct contact with water. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:
Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Hazardous reactions:
Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Based on available data, the classification criteria are not met.

Information on: ethylbenzene
Experimental/calculated data:
LD50 rat (oral): 3,500 mg/kg
Literature data.

Information on: xylene
Experimental/calculated data:
LD50 rat (oral): 3,523 mg/kg (similar to OECD guideline 401)

Information on: ethylbenzene
Experimental/calculated data:
LD50 rabbit (dermal): 15,354 mg/kg
Literature data.

Irritation

Assessment of irritating effects:
The liquid splashed in the eyes may cause irritation and reversible damage. Eye contact causes irritation. Skin contact causes irritation.

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure):

Assessment of STOT single:
Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Harmful to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: ethylbenzene
Elimination information:
70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: n-Butyl acetate
Elimination information:
80 % BOD of the ThOD (5 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Information on: xylene
Elimination information:
87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Observe national and local legal requirements.
No disposal via sewage or waste water systems.
Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
Residues in empty containers should be neutralised with decontaminant (see section 6).

14. Transport Information

Domestic transport:

Packing group:	III
ID number:	UN 1263
Transport hazard class(es):	3

Proper shipping name: PAINT RELATED MATERIAL

Further information
Hazchem Code:3Y
IERG Number:14

Sea transport
IMDG

Packing group:	III
ID number:	UN 1263
Transport hazard class(es):	3
Marine pollutant:	NO
Proper shipping name:	PAINT RELATED MATERIAL

Air transport
IATA/ICAO

Packing group:	III
ID number:	UN 1263
Transport hazard class(es):	3
Proper shipping name:	PAINT RELATED MATERIAL

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
Tracking requirements do not apply to this substance.
A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002662
Surface Coatings and Colourants (Flammable) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

75-65 2K Primerfiller Hardener VOC

Version	Revision Date:	SDS Number:	Date of last issue: 30.05.2025
4.1	08.06.2025	000000000050679289	Date of first issue: 08.06.2025

Section 1: Identification

Product name : 75-65 2K Primerfiller Hardener VOC

Product code : 000000000050679289

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation	:	Category 2
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P284 Wear respiratory protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ	>= 30 -< 50

			toxicity - single exposure (Respiratory system), Category 3	
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30

1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 2.5 -< 10
4-toluenesulphonyl isocyanate	p-toluenesulphonyl isocyanate	4083-64-1	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Respiratory sensitization, Category 1 Specific target organ toxicity - single exposure	>= 0.1 -< 1

			(Respiratory system), Category 3	

Section 4: First-aid measures

General advice : Immediately remove contaminated clothing.
First aid personnel should pay attention to their own safety.
Move out of dangerous area.
Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.
In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
Keep patient warm and at rest.
Never give anything by mouth to an unconscious person.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Call a physician immediately.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If easy to do, remove contact lens, if worn.

		Call a physician immediately.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. Risk of product entering the lungs on vomiting after ingestion. When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.
Notes to physician	:	Treat symptomatically. No known specific antidote.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray jet Dry powder Alcohol-resistant foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the

environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and

let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Vapors are heavier than air and may spread along floors.

Vapors may form explosive mixtures with air.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Open drum carefully as content may be under pressure.

Do not breathe vapors or spray mist.

Protect from moisture.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions : Keep in a cool, well-ventilated place.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

Exercise caution when opening to allow pressure release.

Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed

which in closed containers can result pressurisation.

Always keep in containers of same material as the original one.

Observe label precautions.

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Packaging material : Suitable material: Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable	0.07 mg/m3	NZ OEL

		Fraction and Vapour)	(NCO)	
	Further information: Skin sensitizer, Respiratory sensitizer			
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH
4-toluenesulphonyl isocyanate	4083-64-1	WES-TWA (Inhalable Fraction and	0.02 mg/m3 (NCO)	NZ OEL

		Vapour)		
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl	Urine	End of shift (As soon as possible	0.15 g/g creatinine	ACGIH BEI

		glyoxylic acid		after exposure ceases)		

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)
Eye protection	:	Required when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Personnel should wear antistatic, flame-retardant clothing

made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Persons with a history of allergies, asthma, recurrent or chronic respiratory disease must not be employed in any process in which this product is used. Persons using this product should undergo lung function tests at regular intervals.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protective equipment should be worn by spray booth operatives.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor	:	ester-like
pH	:	not determined
Melting point/ range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	> 25 °C
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	not determined (20 °C) not determined (50 °C)

Density	:	0.940 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	36 mm2/s (23 °C) not determined (40 °C)
Flow time	:	> 30 s (23 °C) Cross section: 4 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.

Particle characteristics

Particle size : The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Vapours may form ignitable mixture with air.

Conditions to avoid : Avoid direct contact with water.

Avoid direct sunlight.

Heat, flames and sparks.

Incompatible materials : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Hazardous decomposition products : Isocyanates
Hydrogen cyanide (hydrocyanic acid)
Nitrogen oxides (NOx)

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Skin corrosion/irritation
Causes skin irritation.

Components:

n-Butyl acetate:
Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic toxicity

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers:

Partition coefficient: n-octanol/water : log Pow: 9.81 (25 °C)

xylene:

Partition coefficient: n-octanol/water : log Pow: 3.12 - 3.20 (25 °C)

GLP: no

Remarks: Information taken from reference works and the literature.

n-Butyl acetate:

Partition coefficient: n-octanol/water : Pow: 200 (25 °C)

log Pow: 2.3 (25 °C)

pH: 7

Method: OECD Test Guideline 117

GLP: yes

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)

pH: 6.8

Method: OECD Test Guideline 117

GLP: yes

ethylbenzene:

Partition coefficient: n-octanol/water : Pow: 4,170 (20 °C)

log Pow: 3.6 (20 °C)

pH: 7.8

GLP: yes

4-toluenesulphonyl isocyanate:

Partition coefficient: n-octanol/water : log Pow: 0.6 (30 °C)

Method: OECD Test Guideline 117

GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up). Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

ERG Code : 127

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	08.06.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

352-230 Activator 1L G2

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
4.0	14.11.2025	000000000050411423	Date of first issue: 30.04.2024

Section 1: Identification

Product name : 352-230 Activator 1L G2

Product code : 000000000050411423

Manufacturer or supplier's details

Chemetall Kft., org. složka
Radlická 354/107b
158 00 Praha 5
Czech Republic

Distributor:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
New Zealand

Emergency contact
Telephone: +64 9 255-4300

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure	:	Category 3 (Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements :

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
inorganic acids

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
propylene glycol monoethyl ether	1-ethoxypropan-2-ol	1569-02-4	Flammable liquids, Category 3 Specific target organ	>= 30 -< 50

			toxicity - single exposure (Central nervous system), Category 3	
propan-2-ol	propan-2-ol	67-63-0	Flammable liquids, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
5-methylhexan-2-one	5-methylhexan-2-one	110-12-3	Flammable liquids, Category 3 Acute toxicity (Inhalation), Category 4 Reproductive toxicity, Category 2	>= 10 -< 20
isobutyl alcohol	2-methylpropan-1-ol	78-83-1	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3	>= 10 -< 20

phosphoric acid	orthophosphoric acid (Solution)	7664-38-2	Corrosive to Metals, Category 1 Acute toxicity (Oral), Category 4 Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1	>= 1 -< 3

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : Do NOT use solvents or thinners.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact : If easy to do, remove contact lens, if worn.

		Call a physician immediately. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5.00 - 35.00 °C
Packaging material	:	Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propylene glycol monoethyl	1569-02-4	TWA	50 ppm	ACGIH

ether				
		STEL	200 ppm	ACGIH
propan-2-ol	67-63-0	WES-TWA	400 ppm 983 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,230 mg/m3	NZ OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
5-methylhexan-2-one	110-12-3	WES-TWA	50 ppm 234 mg/m3	NZ OEL
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
isobutyl alcohol	78-83-1	WES-TWA	50 ppm 152 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
phosphoric acid	7664-38-2	WES-TWA	1 mg/m3	NZ OEL
		TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of	40 mg/l	ACGIH

				shift at end of workweek		BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

half-mask with A1P2 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)
Eye protection	:	Required when there is a risk of eye contact. Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
Skin and body protection	:	Anti-static protective clothing Personnel should wear antistatic, flame-retardant clothing

made of natural fibres and/or heat-resistant synthetic fibres.

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	alcohol-like
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	82.00 - 158.00 °C
Flash point	:	23 °C Method: ISO 3679

Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	not determined (20 °C) not determined (50 °C)
Relative vapor density	:	Heavier than air.
Density	:	0.837 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as

prescribed/indicated.

Viscosity		
Viscosity, kinematic	:	6.0 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight.
		Protect from frost.
		Heat.

		Heat, flames and sparks.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Components:

phosphoric acid:

Acute oral toxicity	:	LD50 (Rat, female): 2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

propylene glycol monoethyl ether:

Partition coefficient: n-octanol/water	:	log Pow: 0 (20 °C) pH: 7

propan-2-ol:

Partition coefficient: n-octanol/water	:	log Pow: 0.05 (25 °C) Remarks: Information taken from reference works and the literature.

5-methylhexan-2-one:

Partition coefficient: n-octanol/water	:	log Pow: 1.88 (25 °C)

isobutyl alcohol:

Partition coefficient: n-octanol/water	:	Pow: 10 (25 °C) log Pow: 1 (25 °C) Method: OECD Test Guideline 117 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as

the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263

Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

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Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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NZ / EN

352-235 2,5L Activator slow

Version	Revision Date:	SDS Number:	Date of last issue: 22.08.2025
5.0	14.11.2025	000000000054626293	Date of first issue: 31.07.2024

Section 1: Identification

Product name : 352-235 2,5L Activator slow

Product code : 000000000054626293

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
Thinner

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary Statements :

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
inorganic acids

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
isobutyl alcohol	2-methylpropan-1-ol	78-83-1	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye	>= 50 -< 70

			irritation, Category 1 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3	
n-butanol	butan-1-ol	71-36-3	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3	>= 30 -< 50
propylene glycol monoethyl ether	1-ethoxypropan-2-ol	1569-02-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 10 -< 20
phosphoric acid	orthophosphoric acid (Solution)	7664-38-2	Corrosive to Metals, Category 1 Acute toxicity (Oral), Category 4 Skin corrosion/irritation, Category 1B Serious eye	>= 3 -< 5

			damage/eye irritation, Category 1	

Section 4: First-aid measures

General advice	:	Never give anything by mouth to an unconscious person. Move out of dangerous area. In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	Do NOT use solvents or thinners. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water.

		Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire	:	Fire will produce dense black smoke containing hazardous

fighting		combustion products (see section 10).
Hazardous combustion products	:	Oxides of phosphorus

Advice for firefighters

Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on : Keep away from heat.

storage conditions		Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5 - 40 °C
Packaging material	:	Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
isobutyl alcohol	78-83-1	WES-TWA	50 ppm 152 mg/m3	NZ OEL

		TWA	50 ppm	ACGIH
n-butanol	71-36-3	WES-Ceiling	50 ppm 150 mg/m3	NZ OEL
	Further information: Skin absorption			
		TWA	20 ppm	ACGIH
propylene glycol monoethyl ether	1569-02-4	TWA	50 ppm	ACGIH
		STEL	200 ppm	ACGIH
phosphoric acid	7664-38-2	WES-TWA	1 mg/m3	NZ OEL
		TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

half-mask with A1P2 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Skin and body protection : Anti-static protective clothing

Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor : alcohol-like

pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	> 32 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	not determined (20 °C) not determined (50 °C)
Relative vapor density	:	Heavier than air.
Density	:	0.833 g/cm3 (20 °C)

Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6.0 mm2/s (23 °C) not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat. Heat, flames and sparks. Protect from frost. Avoid direct sunlight.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

phosphoric acid:

Acute oral toxicity	:	LD50 (Rat, female): 2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

isobutyl alcohol:

Partition coefficient: n-octanol/water	:	Pow: 10 (25 °C) log Pow: 1 (25 °C) Method: OECD Test Guideline 117 GLP: yes

n-butanol:

Partition coefficient: n-octanol/water	:	log Pow: 1 (25 °C) Method: OECD Test Guideline 117 GLP: yes

propylene glycol monoethyl ether:

Partition coefficient: n-octanol/water	:	log Pow: 0 (20 °C) pH: 7

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-Ceiling	:	Workplace Exposure Standard - Ceiling

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-55 2,5L HS Filler Hardener

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
4.0	14.11.2025	000000000050411380	Date of first issue: 03.06.2024

Section 1: Identification

Product name : 929-55 2,5L HS Filler Hardener

Product code : 000000000050411380

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

Specific target organ toxicity - repeated exposure : Category 2 (Kidney, Liver, Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single	>= 30 -< 50

			exposure (Central nervous system), Category 3	
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
IPDI Homopolymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 1 -< 10
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure	>= 2.5 -< 10

			(Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.

If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in

Section 11.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Hazardous combustion products : Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Cool containers/tanks with water spray.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Hazchem Code : 3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Avoid breathing vapours.

For non-emergency personnel:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).
		Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Open drum carefully as content may be under pressure.

Do not breathe vapors or spray mist.

Protect from moisture.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

		Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions.
Materials to avoid	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Packaging material	:	Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			

		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of

permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor	:	specific
pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
Boiling point/boiling range	:	124 - 181 °C Method: calculated
Flash point	:	31 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	10.0000 hPa (20 °C) Method: calculated

		not determined (50 °C)
Density	:	0.991 g/cm3 (20 °C)
Solubility(ies) Water solubility	: :	 not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity Viscosity, kinematic	: :	 220.0 mm2/s (23 °C) not determined (40 °C)
Flow time	:	> 32 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Avoid direct contact with water. Avoid direct sunlight.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid) Isocyanates

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure

build up).

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Residues in empty containers should be neutralised with decontaminant (see section 6).

Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3

Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of

all components.
Restricted to professional users.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ BEI : New Zealand. Biological Exposure Indices

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -

Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

SAFETY DATA SHEET

929-56 2,5L HS Filler Hardener G2

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2025
3.1	08.06.2025	000000000050411394	Date of first issue: 08.06.2025

Section 1: Identification

Product name : 929-56 2,5L HS Filler Hardener G2

Product code : 000000000050411394

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin sensitization : Category 1

Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3	>= 30 -< 50

			Specific target organ toxicity - single exposure (Central nervous system), Category 3	
HDI-Oligomer(Trimer)	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
IPDI Homopolymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 10 -< 20
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ	>= 2.5 -< 10

			toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10

Section 4: First-aid measures

General advice : First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.
Move out of dangerous area.

		Never give anything by mouth to an unconscious person.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	Call a physician immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	:	Call a physician immediately. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and

effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Notes to physician : Treat symptomatically.
No known specific antidote.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray jet

Dry powder

Alcohol-resistant foam

Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8

of this safety data sheet.

Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by

volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Vapors are heavier than air and may spread along floors.

Vapors may form explosive mixtures with air.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Open drum carefully as content may be under pressure.

Do not breathe vapors or spray mist.

Protect from moisture.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions : Keep away from heat.

Store protected against freezing.

Keep in a cool, well-ventilated place.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

Exercise caution when opening to allow pressure release.

Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation.

Always keep in containers of same material as the original one.

Observe label precautions.

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
HDI-Oligomer(Trimer)	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protective equipment should be worn by spray booth operatives.

Section 9: Physical and chemical properties

Appearance : liquid

Color	:	colorless
Odor	:	ester-like
pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	31 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	not determined (20 °C)

		not determined (50 °C)
Density	:	0.990 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	210.4 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	> 32 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.

Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Avoid direct sunlight. Avoid direct contact with water.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Isocyanates Hydrogen cyanide (hydrocyanic acid)

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

HDI-Oligomer(Trimer):

Partition coefficient: n-	:	log Pow: 9.81 (25 °C)

octanol/water

xylene:

Partition coefficient: n-octanol/water : log Pow: 3.12 - 3.20 (25 °C)

GLP: no

Remarks: Information taken from reference works and the literature.

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)

pH: 6.8

Method: OECD Test Guideline 117

GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging	:	Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo	:	366

aircraft)

Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

ERG Code : 127

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date : 08.06.2025

Further information

Other information : Restricted to professional users.
For multi-pack systems observe material safety data sheets of

all components.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ BEI : New Zealand. Biological Exposure Indices

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention

for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-58 2,5L Hardener Pro

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
3.0	14.11.2025	000000000050462199	Date of first issue: 28.11.2024

Section 1: Identification

Product name : 929-58 2,5L Hardener Pro

Product code : 000000000050462199

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

Specific target organ toxicity - repeated exposure : Category 2 (Kidney, Liver, Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
polyurethane
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1	>= 30 -< 50

			Specific target organ toxicity - single exposure (Respiratory system), Category 3	
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
IPDI Homopolymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 1 -< 10
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ	>= 2.5 -< 10

			toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

		If symptoms persist, call a physician.
In case of skin contact	:	Call a physician immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.

Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-

flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the

health and safety at work laws.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Open drum carefully as content may be under pressure.

Do not breathe vapors or spray mist.

Protect from moisture.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions : Keep away from heat.

Keep in a cool, well-ventilated place.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

Exercise caution when opening to allow pressure release.

Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation.

Always keep in containers of same material as the original one.

Observe label precautions.

Store protected against freezing.

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Recommended storage temperature : 5.00 - 30.00 °C

Packaging material : Suitable material: Aluminum, glass, High density polyethylene (HDPE), Low density polyethylene (LDPE), tinned carbon steel (Tinplate), Carbon steel (Iron), Stainless steel 1.4301 (V2), Polypropylene, Polyethyleneterephtalate (PET)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			

		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure	1.5 g/g creatinine	ACGIH BEI

				ceases)		

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Remarks : Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index

6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Preventive skin protection

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : chemical-resistant disposable coveralls

Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : yellow

Odor : ester-like

pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
	:	128.00 - 138.00 °C
Flash point	:	29 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	10.0000 hPa (20 °C) 48.0000 hPa (50 °C)
Density	:	1.047 g/cm3 (20 °C)

Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	not determined (40 °C) 411.6 mm2/s (23 °C)
Flow time	:	> 60 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Protect from frost. Avoid direct contact with water. Avoid direct sunlight. Heat.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Isocyanates Hydrogen cyanide (hydrocyanic acid) Nitrogen oxides (NOx)

Section 11: Toxicological information

Acute toxicity

Harmful if inhaled.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: 2.94 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Method: Calculation method

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the

literature.

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up). Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

Remarks	:	Packages smaller than or equal to 450 liters, not goods/merchandise of Class 3

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average

ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

We create chemistry

Safety data sheet

1. Substance/preparation and manufacturer/supplier identification

Product name:
929-62 2,5L Härter extra G2

Use: hardener

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:
Acute toxicity: Cat.4 (Inhalation - vapour)
Skin corrosion/irritation: Cat.3
Serious eye damage/eye irritation: Cat.2A
Skin sensitization: Cat.1
Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)
Specific target organ toxicity — repeated exposure: Cat.2
Hazardous to the aquatic environment - chronic: Cat.3
Flammable liquids: Cat.4

Label elements and precautionary statement:

Pictogram:



Signal Word:
Warning

Hazard Statement:

H227	Combustible liquid.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash contaminated body parts thoroughly after handling.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical attention.
P314	Get medical advice/attention if you feel unwell.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

polyisocyanate, organic solvent

Hazardous ingredients

Hexamethylen-1,6-diisocyanat Homopolymer

Content (W/W): >= 75 % - <= 100 %	Acute Tox.: Cat. 4 (Inhalation - dust)
CAS Number: 28182-81-2	Acute Tox.: Cat. 4 (Inhalation - vapour)
	Skin Sens.: Cat. 1
	STOT SE: Cat. 3 (irr. to respiratory syst.)

Propanoic acid, 3-ethoxy-, ethyl ester

Content (W/W): >= 5 % - < 7 %	Flam. Liq.: Cat. 3
CAS Number: 763-69-9	Acute Tox.: Cat. 5 (oral)
	Aquatic Acute: Cat. 3
	Acute Tox.: Cat. 5 (dermal)

2-heptanone

Content (W/W): >= 3 % - < 5 %	Flam. Liq.: Cat. 3
CAS Number: 110-43-0	Acute Tox.: Cat. 4 (Inhalation - vapour)
	Acute Tox.: Cat. 4 (oral)
	Skin Corr./Irrit.: Cat. 3
	STOT SE: Cat. 3 (drowsiness and dizziness)
	Aquatic Acute: Cat. 3

Solventnaphtha (petroleum), light aromatic

Content (W/W): >= 3 % - < 5 %	Asp. Tox.: Cat. 1
CAS Number: 64742-95-6	Flam. Liq.: Cat. 3
	STOT SE: Cat. 3 (drowsiness and dizziness)
	STOT SE: Cat. 3 (irr. to respiratory syst.)
	Aquatic Chronic: Cat. 2

isophorone diisocyanate (IPDI) polymer

Content (W/W): >= 2.5 % - < 3 %	Skin Sens.: Cat. 1
CAS Number: 53880-05-0	STOT SE: Cat. 3 (irr. to respiratory syst.)

2-butoxyethyl acetate

Content (W/W): >= 1 % - < 2 % CAS Number: 112-07-2	Flam. Liq.: Cat. 4 Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 4 (dermal) Aquatic Acute: Cat. 3

Benzoic acid

Content (W/W): >= 1 % - < 2 % CAS Number: 65-85-0	Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 1 STOT RE (Lung): Cat. 1 (by inhalation)

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

Note to physician:
Symptoms: Eye irritation, allergic symptoms, irritation of respiratory tract, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Treatment: Symptomatic treatment (decontamination, vital functions).
Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:
Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:
Do not allow to enter drains or waterways.If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13). Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Care should be taken when reopening partly used containers (pressurization!). Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Keep away from strongly acid and stongly alkaline materials, from oxidizing agents, amines, alcohols and water.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

8. Exposure controls and personal protection

Components with occupational exposure limits

2-heptanone, 110-43-0;
TWA value 50 ppm (ACGIHTLV)
TWA value 233 mg/m3 ; 50 ppm (OEL (NZ))

isophorone diisocyanate (IPDI) polymer, 53880-05-0;
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
STEL value 0.07 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
TWA value 0.02 mg/m3 (OEL (NZ)), Inhalable fraction and vapor
Measured as: NCO
Note: These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.

Solventnaphtha (petroleum), light aromatic, 64742-95-6;

Biological Exposure Indices:
No data available.

Personal protective equipment

Respiratory protection:
Suitable respiratory protection: e.g. half-mask with A2P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
butyl rubber gloves - material thickness: 0.5 mm
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)
Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection:
Tightly fitting safety goggles (splash goggles) (e.g. EN 166), Required when there is a risk of eye contact.

Body protection:
chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	ester-like
pH value:	
	substance/mixture is non-soluble (in water)

Melting point:	not determined	
onset of boiling:	150 °C	(calculated)
Flash point:	64 °C	(ISO 3679)
Flammability (solid/gas):	Combustible liquid.	
Lower explosion limit:	36 g/m3	
Ignition temperature:	> 200.00 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Self heating ability:	It is not a material capable of spontaneous heating	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	6.00 hPa (20 °C)	(calculated)
	(50 °C) not determined	
Density:	1.110 g/cm3 (20 °C)	
Relative vapour density (air):	Heavier than air.	
Solubility in water:	Reacts with water.	
Miscibility with water:	immiscible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Viscosity, kinematic:	80.3 mm2/s (23 °C)	
	(40 °C) No data available.	
Flow time:	> 60 s (23 °C)	(DIN EN ISO 2431; 4 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid direct contact with water. Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Hazardous reactions:
Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

Reactivity:
No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Of moderate toxicity after short-term inhalation.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Information on: 2-heptanone

Acute inhalation toxicity

Experimental/calculated data:
LC50 rat (by inhalation): > 16.7 mg/l 4 h (OECD Guideline 403)
Mortality was observed. The vapour was tested.

Information on: 2-butoxyethyl acetate

Acute inhalation toxicity

Experimental/calculated data:
LC50 rat (by inhalation): > 400 ppm 4 h (OECD Guideline 403)
No mortality was observed. Highest concentration technically achievable. The vapour was tested.

Information on: Hexamethylen-1,6-diisocyanat Homopolymer

Acute inhalation toxicity

Experimental/calculated data:
LC50 rat (by inhalation): 1.500 mg/l 4.0 h (OECD Guideline 403)
An aerosol was tested.

Symptoms

Eye irritation allergic symptoms irritation of respiratory tract Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:
The liquid splashed in the eyes may cause irritation and reversible damage. Eye contact causes irritation. Skin contact causes slight irritation.

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

Based on the properties of the isocyanate components and considering toxicological data on similar product, this product may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the occupational exposure limit. Repeated inhalation may lead to a permanent respiratory disability.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: 2-heptanone
Elimination information:
69 % DOC reduction (28 d) (OECD Guideline 310) (aerobic, activated sludge, domestic, non-adapted)

Information on: 2-butoxyethyl acetate
Elimination information:
88 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic)

Information on: Ethyl 3-ethoxypropionate
Elimination information:
100 % CO2 formation relative to the theoretical value (28 d) (Directive 84/449/EEC, C.5) (aerobic, activated sludge, domestic, non-adapted) Readily biodegradable.

100 % CO2 formation relative to the theoretical value (18 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic)

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.
Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
Residues in empty containers should be neutralised with decontaminant (see section 6).

14. Transport Information

Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Sea transport
IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable Marine pollutant: no
Special precautions for user	None known

Air transport
IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

Environmental hazards:	Not applicable
Special precautions for user	None known

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
A certified handler is not required for the handling of this substance.
Tracking requirements do not apply to this substance.

HSNO Approval Number HSR002657
Surface Coatings and Colourants (Combustible) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components.Restricted to professional users.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

929-63 2,5L Hardener VOC normal G2

Version	Revision Date:	SDS Number:	Date of last issue: 22.08.2025
6.0	14.11.2025	000000000050412070	Date of first issue: 25.03.2024

Section 1: Identification

Product name : 929-63 2,5L Hardener VOC normal G2

Product code : 000000000050412070

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin sensitization : Category 1

Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal Word	:	Warning
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation.
Precautionary Statements	:	**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing mist or vapors. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. **Response:** P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
HDI-Oligomer(Trimer)	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure	>= 70 -< 90

			(Respiratory system), Category 3	
2-butoxyethyl acetate	2-butoxyethyl acetate	112-07-2	Flammable liquids, Category 4 Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4	>= 1 -< 10
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-49-0	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 2.5 -< 10
2-heptanone	heptan-2-one	110-43-0	Flammable liquids, Category 3 Acute toxicity (Oral), Category 4 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10

isophorone diisocyanate (IPDI) polymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 1 -< 10

Section 4: First-aid measures

General advice : First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : Call a physician immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

		Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing	:	High volume water jet

media

Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed

		respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Open drum carefully as content may be under pressure. Do not breathe vapors or spray mist. Protect from moisture.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation.

Always keep in containers of same material as the original one.

Observe label precautions.

Store protected against freezing.

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Recommended storage temperature : 5.00 - 35.00 °C

Packaging material : Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene, Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HDI-Oligomer(Trimer)	28182-81-2	WES-TWA (Inhalable Fraction and	0.02 mg/m3	NZ OEL

		Vapour)	(NCO)	
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
2-butoxyethyl acetate	112-07-2	TWA	20 ppm	ACGIH
2-heptanone	110-43-0	WES-TWA	50 ppm 233 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor	:	ester-like
pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
Boiling point/boiling range	:	116.00 °C
Flash point	:	57 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	20.0 hPa (20 °C) not determined (50 °C)

Density	:	1.090 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	not determined (40 °C) 195.5 mm2/s (23 °C)
Flow time	:	> 30 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.

Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight. Protect from frost. Heat, flames and sparks. Avoid direct contact with water. Heat.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Isocyanates Hydrogen cyanide (hydrocyanic acid)

Section 11: Toxicological information

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 13.15 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

2-butoxyethyl acetate:

Acute oral toxicity	:	LD50 (Rat): 1,880 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): 1,500 mg/kg

2-heptanone:

Acute oral toxicity	:	LD50 (Rat): 1,600 mg/kg

Acute inhalation toxicity	:	LC50 (Rat): 16.7 mg/l Exposure time: 4 h Test atmosphere: vapor

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

HDI-Oligomer(Trimer):

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.51 (25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: no

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Partition coefficient: n-octanol/water	:	log Pow: > 4 log Pow: > 4

2-heptanone:

Partition coefficient: n-octanol/water	:	log Pow: 2.26 (30 °C) pH: 7 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up). Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as

the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for

Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United

Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

SAFETY DATA SHEET

929-64 2,5L VOC Hardener slow G2

Version	Revision Date:	SDS Number:	Date of last issue: 22.08.2025
5.0	14.11.2025	000000000050412057	Date of first issue: 25.03.2024

Section 1: Identification

Product name : 929-64 2,5L VOC Hardener slow G2

Product code : 000000000050412057

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin sensitization : Category 1

Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal Word	:	Warning
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation.
Precautionary Statements	:	**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing mist or vapors. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. **Response:** P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyisocyanate
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
HDI-Oligomer(Trimer)	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure	>= 70 -< 90

			(Respiratory system), Category 3	
2-butoxyethyl acetate	2-butoxyethyl acetate	112-07-2	Flammable liquids, Category 4 Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4	>= 1 -< 10
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-49-0	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 2.5 -< 10
2-heptanone	heptan-2-one	110-43-0	Flammable liquids, Category 3 Acute toxicity (Oral), Category 4 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10

isophorone diisocyanate (IPDI) polymer	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0	Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 1 -< 10

Section 4: First-aid measures

General advice : First aid personnel should pay attention to their own safety.
Never give anything by mouth to an unconscious person.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.
Move out of dangerous area.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : Call a physician immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

		Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing	:	High volume water jet

media

Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Hazardous combustion products	:	Nitrogen oxides (NOx)

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed

		respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Open drum carefully as content may be under pressure. Do not breathe vapors or spray mist. Protect from moisture.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result pressurisation. Always keep in containers of same material as the original

one.

Observe label precautions.

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
HDI-Oligomer(Trimer)	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL

	Further information: Skin sensitizer, Respiratory sensitizer			
2-butoxyethyl acetate	112-07-2	TWA	20 ppm	ACGIH
2-heptanone	110-43-0	WES-TWA	50 ppm 233 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection	:	Required when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres. chemical-resistant disposable coveralls
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. Respiratory protective equipment should be worn by spray booth operatives. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	of hydrocarbons
pH	:	substance/mixture reacts with water

Melting point/ range	:	not determined
Boiling point/boiling range	:	140.00 °C
Flash point	:	46 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	6.0 hPa (20 °C) not determined (50 °C)
Density	:	1.098 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined

Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	not determined (40 °C)
		411.6 mm2/s (23 °C)
Flow time	:	> 60 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.

Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight. Avoid direct contact with water. Heat, flames and sparks.
Incompatible materials	:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid) Isocyanates

Section 11: Toxicological information

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 13.28 mg/l Exposure time: 4 h Test atmosphere: vapor

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

2-butoxyethyl acetate:

Acute oral toxicity : LD50 (Rat): 1,880 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 1,500 mg/kg

2-heptanone:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 16.7 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration toxicity
Based on available data, the classification criteria are not met.

Product:
No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential

Components:

HDI-Oligomer(Trimer):

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.51 (25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: no

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Partition coefficient: n-octanol/water	:	log Pow: > 4 log Pow: > 4

2-heptanone:

Partition coefficient: n-octanol/water	:	log Pow: 2.26 (30 °C) pH: 7 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up). Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Residues in empty containers should be neutralised with decontaminant (see section 6). Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date : 14.11.2025

Further information

Other information : For multi-pack systems observe material safety data sheets of all components.
Restricted to professional users.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -

International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

Section 1: Identification

Product name : 929-68 2,5L G2

Product code : 000000000050655470

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Skin sensitization : Category 1

Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal Word	:	Warning
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation.
Precautionary Statements	:	**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing mist or vapors. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. **Response:** P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 70 -< 90
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3	>= 10 -< 20

			Specific target organ toxicity - single exposure (Central nervous system), Category 3	

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : If symptoms persist, call a physician.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Do NOT use solvents or thinners.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If symptoms persist, call a physician.

If swallowed	:	Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing

leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5 - 35 °C
Packaging material	:	Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control	Basis

		(Form of exposure)	parameters / Permissible concentration	
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Preventive skin protection

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	hydrocarbon-like
pH	:	substance/mixture is non-soluble (in water)
Melting point/ range	:	not determined
Boiling point/boiling range	:	124 - 128 °C Method: calculated
Flash point	:	47 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3

Vapor pressure	:	10.0000 hPa (20 °C) Method: calculated not determined (50 °C)
Density	:	1.119 g/cm3 (20 °C)
Solubility(ies) Water solubility	: :	 not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity Viscosity, kinematic	: :	 195.5 mm2/s (23 °C) not determined (40 °C)
Flow time	:	> 30 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	:	Avoid direct sunlight. Protect from frost. Heat, flames and sparks. Heat.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Harmful if inhaled.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: 12.23 mg/l Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-91 2.5L HS-hardener fast G2

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
5.0	14.11.2025	000000000050411452	Date of first issue: 28.11.2024

Section 1: Identification

Product name : 929-91 2.5L HS-hardener fast G2

Product code : 000000000050411452

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye : Category 2

irritation

Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 2 (Lungs)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P284 Wear respiratory protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent

polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
4-methylpentan-2-one	4-methylpentan-2-one	108-10-1	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Serious eye damage/eye irritation, Category 2 Carcinogenicity, Category 2 Specific target organ toxicity - single exposure (Respiratory system,	>= 10 -< 20

			Central nervous system), Category 3	
isobutyl acetate	isobutyl acetate	110-19-0	Flammable liquids, Category 2 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 10 -< 20
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 2.5 -< 10

1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
Benzoic acid	benzoic acid	65-85-0	Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Specific target organ toxicity - repeated exposure (Inhalation) (Lungs), Category 1	>= 1 -< 3
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 1 -< 2.5
4-toluenesulphonyl	p-toluenesulphonyl	4083-64-1	Skin	>= 0.1 -< 1

isocyanate	isocyanate		corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Respiratory sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	
dibutyltin dilaurate	dibutyltin dilaurate	77-58-7	Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 1 Specific target organ toxicity - single exposure (thymus gland), Category 1 Specific target organ toxicity - repeated exposure (Immune system), Category 1 Hazardous to the aquatic environment - acute hazard, Category 1 Hazardous to the	>= 0.1 -< 0.25

			aquatic environment - chronic hazard, Category 1	

Section 4: First-aid measures

General advice	:	In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident. Keep patient warm and at rest. Never give anything by mouth to an unconscious person. Move out of dangerous area. Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately.
In case of skin contact	:	Do NOT use solvents or thinners. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	If easy to do, remove contact lens, if worn. Call a physician immediately.

		Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. When inhaled (e.g. during vomiting) risk of pulmonary oedema

and/or pneumonia.

Risk of product entering the lungs on vomiting after ingestion.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Cool containers/tanks with water spray.

Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

		Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5.00 - 35.00 °C
Packaging material	:	Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
4-methylpentan-2-one	108-10-1	WES-TWA	50 ppm 205 mg/m3	NZ OEL
		WES-STEL	75 ppm 307 mg/m3	NZ OEL
		TWA	20 ppm	ACGIH
		STEL	75 ppm	ACGIH
isobutyl acetate	110-19-0	WES-TWA	150 ppm	NZ OEL

			713 mg/m3	
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH
Benzoic acid	65-85-0	TWA (Inhalable fraction and vapor)	0.5 mg/m3	ACGIH
4-toluenesulphonyl isocyanate	4083-64-1	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			

		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
dibutyltin dilaurate	77-58-7	WES-TWA	0.1 mg/m3 (Tin)	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	0.2 mg/m3 (Tin)	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	0.1 mg/m3 (Tin)	ACGIH
		STEL	0.2 mg/m3 (Tin)	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
4-methylpentan-2-one	108-10-1	MIBK	Urine	End of shift	0.7 mg/l	NZ BEI
		methyl isobutyl ketone	Urine	End of shift (As soon as possible	1 mg/l	ACGIH BEI

				after exposure ceases)		
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable

personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Request information on glove permeation properties from the glove supplier.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Preventive skin protection

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

Persons with a history of allergies, asthma, recurrent or chronic respiratory disease must not be employed in any process in which this product is used. Persons using this product should undergo lung function tests at regular

intervals.

Respiratory protective equipment should be worn by spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	of acetate
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	135.00 - 195.00 °C
Flash point	:	> 23 °C Method: ISO 3679

Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	6.0000 hPa (20 °C) not determined (50 °C)
Density	:	0.970 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity Viscosity, kinematic	:	6.0 mm2/s (23 °C)

		not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat. Avoid direct sunlight. Heat, flames and sparks. Protect from frost.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products : No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Skin corrosion/irritation

Causes skin irritation.

Components:

n-Butyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

4-methylpentan-2-one:

Assessment : Repeated exposure may cause skin dryness or cracking.

isobutyl acetate:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

4-methylpentan-2-one:

Partition coefficient: n-octanol/water	:	Pow: 79 (20 °C) log Pow: 1.9 (20 °C) pH: 6.7 Method: OECD Test Guideline 117 GLP: no

isobutyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 2.3 (25 °C) pH: 7

		Method: OECD Test Guideline 117 GLP: yes
xylene:		
Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.
1-methoxy-2-propylacetate:		
Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes
Benzoic acid:		
Partition coefficient: n-octanol/water	:	log Pow: 1.88
ethylbenzene:		
Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8

GLP: yes

4-toluenesulphonyl isocyanate:

Partition coefficient: n-octanol/water	:	log Pow: 0.6 (30 °C) Method: OECD Test Guideline 117 GLP: no

dibutyltin dilaurate:

Partition coefficient: n-octanol/water	:	Pow: 27,700 (20.8 °C) log Pow: 4.44 (20.8 °C) pH: 6.1 - 6.3 Method: OECD Test Guideline 107 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as

the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002669 Surface Coatings and Colourants Flammable Carcinogenic Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)

NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating

Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-93 0,5L Decklackhärter G2

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
4.0	14.11.2025	000000000050411461	Date of first issue: 30.04.2024

Section 1: Identification

Product name : 929-93 0,5L Decklackhärter G2

Product code : 000000000050411461

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
Coatings and related products

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of

the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature	:	organic solvent polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated	>= 2.5 -< 10

			exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
2-butoxyethyl acetate	2-butoxyethyl acetate	112-07-2	Flammable liquids, Category 4 Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 1 -< 2.5

Section 4: First-aid measures

General advice	:	In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident. Keep patient warm and at rest. Never give anything by mouth to an unconscious person. Move out of dangerous area. Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately.
In case of skin contact	:	Do NOT use solvents or thinners. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard.

		Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia. Risk of product entering the lungs on vomiting after ingestion.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such

		circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.

Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5 - 35 °C
Packaging material	:	Suitable material: Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm	NZ OEL

			713 mg/m3	
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
2-butoxyethyl acetate	112-07-2	TWA	20 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As	1.5 g/g creatinine	ACGIH BEI

				soon as possible after exposure ceases)		
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At

least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor	:	hydrocarbon-like
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	135 - 195 °C Method: calculated
Flash point	:	> 34 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	6.0000 hPa (20 °C) Method: calculated

		not determined (50 °C)
Density	:	0.996 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6.6 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	> 29 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.

Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight. Heat. Heat, flames and sparks. Protect from frost.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

2-butoxyethyl acetate:

Acute oral toxicity	:	LD50 (Rat): 1,880 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): 1,500 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.51 (25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: no

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8 GLP: yes

Mobility in soil
No data available

Other adverse effects
No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL

- Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-93 2.5L HS NORMAL HARDENER G2

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
4.0	14.11.2025	000000000050411462	Date of first issue: 30.04.2024

Section 1: Identification

Product name : 929-93 2.5L HS NORMAL HARDENER G2

Product code : 000000000050411462

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
Coatings and related products

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of

the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature	:	organic solvent polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated	>= 2.5 -< 10

			exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
2-butoxyethyl acetate	2-butoxyethyl acetate	112-07-2	Flammable liquids, Category 4 Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 1 -< 2.5

Section 4: First-aid measures

General advice : In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.
Keep patient warm and at rest.
Never give anything by mouth to an unconscious person.
Move out of dangerous area.
Immediately remove contaminated clothing.
First aid personnel should pay attention to their own safety.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately.

In case of skin contact : Do NOT use solvents or thinners.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If symptoms persist, call a physician.

If swallowed : Rinse mouth with water.

Do not induce vomiting due to aspiration hazard.

Keep at rest.

If swallowed, call a poison control center or doctor immediately.

Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

Risk of product entering the lungs on vomiting after ingestion.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such

		circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing. Keep in a dry, cool and well-ventilated place.

Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5 - 35 °C
Packaging material	:	Suitable material: Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm	NZ OEL

			713 mg/m3	
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
2-butoxyethyl acetate	112-07-2	TWA	20 ppm	ACGIH
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As	1.5 g/g creatinine	ACGIH BEI

				soon as possible after exposure ceases)		
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At

least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection : Required when there is a risk of eye contact.

Safety glasses with side-shields conforming to EN166

Skin and body protection : Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

chemical-resistant disposable coveralls

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance : liquid

Color : colorless

Odor	:	hydrocarbon-like
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	135 - 195 °C Method: calculated
Flash point	:	> 34 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	6.0000 hPa (20 °C) Method: calculated

		not determined (50 °C)
Density	:	0.996 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6.6 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	> 29 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.

Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight. Heat. Heat, flames and sparks. Protect from frost.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

2-butoxyethyl acetate:

Acute oral toxicity	:	LD50 (Rat): 1,880 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): 1,500 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.51 (25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: no

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III

Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date : 14.11.2025

Further information

Other information : For multi-pack systems observe material safety data sheets of all components.
Restricted to professional users.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ BEI : New Zealand. Biological Exposure Indices

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

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NZ / EN

SAFETY DATA SHEET

929-94 2.5L HS SLOW HARDENER G2

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2025
5.0	14.11.2025	000000000050411464	Date of first issue: 13.11.2024

Section 1: Identification

Product name : 929-94 2.5L HS SLOW HARDENER G2

Product code : 000000000050411464

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Serious eye damage/eye irritation : Category 2

Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 2 (Lungs)

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements :
H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
2-butoxyethyl acetate	2-butoxyethyl acetate	112-07-2	Flammable liquids, Category 4 Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
Benzoic acid	benzoic acid	65-85-0	Skin corrosion/irritation, Category 2	>= 1 -< 3

			Serious eye damage/eye irritation, Category 1 Specific target organ toxicity - repeated exposure (Inhalation) (Lungs), Category 1	

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
First aid personnel should pay attention to their own safety.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

If symptoms persist, call a physician.

In case of skin contact : Do NOT use solvents or thinners.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye

specialist.

Call a physician immediately.

If easy to do, remove contact lens, if worn.

If swallowed : Rinse mouth.

Do NOT induce vomiting.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure if inhaled.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such

circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions : Keep away from heat.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

Always keep in containers of same material as the original one.

Observe label precautions.

Store protected against freezing.

Keep in a dry, cool and well-ventilated place.

Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	5.00 - 35.00 °C
Packaging material	:	Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
2-butoxyethyl acetate	112-07-2	TWA	20 ppm	ACGIH
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL

		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
Benzoic acid	65-85-0	TWA (Inhalable fraction and vapor)	0.5 mg/m3	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation

		time according to EN ISO 374-1)
Eye protection	:	Required when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres. chemical-resistant disposable coveralls
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	hydrocarbon-like
pH	:	substance/mixture is non-polar/aprotic

Melting point/ range	:	not determined
Boiling point/boiling range	:	135.00 - 195.00 °C
Flash point	:	> 40 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	6.0000 hPa (20 °C) not determined (50 °C)
Density	:	1.011 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined

Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	6.6 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	> 29 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.

Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Protect from frost. Heat, flames and sparks. Avoid direct sunlight. Heat.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

2-butoxyethyl acetate:

Acute oral toxicity	:	LD50 (Rat): 1,880 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): 1,500 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.51 (25 °C) pH: 7 Method: OECD Test Guideline 107 GLP: no

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

Benzoic acid:

Partition coefficient: n-octanol/water	:	log Pow: 1.88

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III

Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1263
Proper shipping name	:	PAINT RELATED MATERIAL
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEL : Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

929-97 0,5L Mat-Clear-System Härter

Version	Revision Date:	SDS Number:	Date of last issue: 22.08.2025
6.0	14.11.2025	000000000050794184	Date of first issue: 20.07.2023

Section 1: Identification

Product name : 929-97 0,5L Mat-Clear-System Härter

Product code : 000000000050794184

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Spraying
hardener

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin sensitization : Category 1

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)

single exposure

Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Hazardous to the aquatic environment - chronic hazard	:	Category 3

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements :
H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic solvent
polyisocyanate

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Hexamethylen-1,6-diisocyanat Homopolymer	Hexamethylene diisocyanate, oligomers (Isocyanurate type)	28182-81-2	Acute toxicity (Inhalation), Category 4 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
n-Butyl acetate	n-butyl acetate	123-86-4	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 30 -< 50
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney,	>= 2.5 -< 10

			Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	
2-heptanone	heptan-2-one	110-43-0	Flammable liquids, Category 3 Acute toxicity (Oral), Category 4 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	64742-95-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 2	>= 2.5 -< 10

1-methoxy-2-propylacetate	2-methoxy-1-methylethyl acetate	108-65-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 1 -< 10
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 1 -< 2.5

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
Move out of dangerous area.
In all cases of doubt, or when symptoms persist, seek medical attention.
Immediately remove contaminated clothing.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

		First aid personnel should pay attention to their own safety.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Do NOT use solvents or thinners. If symptoms persist, call a physician.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	:	Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Dry powder Foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.

Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant.

One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts); water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe vapors or spray mist.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.

Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions : Keep away from heat.

Avoid direct sunlight.

Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.

Always keep in containers of same material as the original one.

Observe label precautions.

Store protected against freezing.

Keep in a dry, cool and well-ventilated place.

Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Recommended storage temperature	:	30.00 °C
Packaging material	:	Suitable material: Stove-lacquer RDL 50, tinned carbon steel (Tinplate), Carbon steel (Iron), Stove-lacquer C222A/C221A, Standard interior paint, Stove-lacquer Vitalure 745, Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer R 78433

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis

			concentration	
Hexamethylen-1,6-diisocyanat Homopolymer	28182-81-2	WES-TWA (Inhalable Fraction and Vapour)	0.02 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
		WES-STEL (Inhalable Fraction and Vapour)	0.07 mg/m3 (NCO)	NZ OEL
	Further information: Skin sensitizer, Respiratory sensitizer			
n-Butyl acetate	123-86-4	WES-STEL	200 ppm 950 mg/m3	NZ OEL
		WES-TWA	150 ppm 713 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
2-heptanone	110-43-0	WES-TWA	50 ppm 233 mg/m3	NZ OEL

		TWA	50 ppm	ACGIH
Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	64742-95-6	WES-TWA	300 ppm 890 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as possible after exposure	1.5 g/g creatinine	ACGIH BEI

				ceases)		
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

full face mask with AB2P3 class combination filter

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

		Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
		Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)
Eye protection	:	Required when there is a risk of eye contact.
		Safety glasses with side-shields conforming to EN166
Skin and body protection	:	Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
		chemical-resistant disposable coveralls
Protective measures	:	Do not breathe vapour/spray.
		Eye wash fountains and safety showers must be easily accessible.
		If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.
		Avoid contact with the skin, eyes and clothing.
		Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	ketone-like

pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	116.00 - 185.00 °C
Flash point	:	28 °C Method: ISO 3679
Evaporation rate	:	not determined
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	20.0 hPa (20 °C) not determined (50 °C)

Density	:	0.980 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	36.0 mm2/s (23 °C) 0.700 mm2/s (40 °C)
Flow time	:	> 30 s (23 °C) Cross section: 4 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.

Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Protect from frost. Avoid direct sunlight. Heat.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

Components:

2-heptanone:

Acute oral toxicity	:	LD50 (Rat): 1,600 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 16.7 mg/l Exposure time: 4 h Test atmosphere: vapor

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

n-Butyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Hexamethylen-1,6-diisocyanat Homopolymer:

Partition coefficient: n-octanol/water	:	log Pow: 9.81 (25 °C)

n-Butyl acetate:

Partition coefficient: n-octanol/water	:	Pow: 200 (25 °C) log Pow: 2.3 (25 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

2-heptanone:

Partition coefficient: n-octanol/water	:	log Pow: 2.26 (30 °C) pH: 7 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: yes

Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0):

Partition coefficient: n-octanol/water	:	log Pow: 3.17 GLP: no

1-methoxy-2-propylacetate:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (20 °C) pH: 6.8 Method: OECD Test Guideline 117 GLP: yes

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8 GLP: yes

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)

NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating

Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

Section 1: Identification

Product name : 948-22 0,05L

Product code : 000000000050770300

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Coatings and related products

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 2

Organic peroxides : Type D

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H225 Highly flammable liquid and vapor.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements :

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P234 Keep only in original packaging.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapors.

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P410 Protect from sunlight.
P411 Store at temperatures not exceeding 25 °C/ 77 °F.
P420 Store separately.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic peroxide
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
diacetonealcohol	4-hydroxy-4-methylpentan-2-one	123-42-2	Flammable liquids, Category 3 Serious eye damage/eye irritation, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 30 -< 50
cyclohexanone peroxide	Cyclohexanone, peroxide	12262-58-7	Organic peroxides, Type A Acute toxicity (Oral), Category 4 Skin corrosion/irritation, Category 1B Specific target organ toxicity - single exposure (Respiratory system), Category 3	>= 20 -< 30
ethyl acetate	ethyl acetate	141-78-6	Flammable liquids,	>= 10 -< 20

			Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Central nervous system), Category 3	

Section 4: First-aid measures

General advice : First aid personnel should pay attention to their own safety.
Immediately remove contaminated clothing.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.
Keep patient warm and at rest.
Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.
In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately.

In case of skin contact : Call a physician immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact	:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Causes severe burns. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.
Notes to physician	:	No known specific antidote. Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray jet Dry powder Alcohol-resistant foam Carbon dioxide (CO2)
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10). Has a fire-promoting effect due to release of oxygen.

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	2WE

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up	:	Ensure adequate ventilation. Contain and collect pastes with a plastic putty knife (see section 7). Contain and collect liquids with inert absorbent material such as vermiculite or perlite.

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment. Vapors may form explosive mixtures with air.
Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility.

		Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Reducing agents, heavy metal compounds, acids, alkalis, contamination. Segregate from alkalies and alkalizing substances. Bases Oxidizing agents

Organic materials

Packaging material	:	Suitable material: tinned carbon steel (Tinplate), Carbon steel (Iron), Polypropylene, Polyethylenetherephtalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE), Stove-lacquer C222A/C221A, Standard interior paint, Stove-lacquer Vitalure 745, Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer R 78433, Stove-lacquer RDL 50

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diacetonealcohol	123-42-2	WES-TWA	50 ppm 238 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
ethyl acetate	141-78-6	WES-TWA	200 ppm 720 mg/m3	NZ OEL
		TWA	400 ppm	ACGIH

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable

personal respiratory protection and protective suit.

Wear respiratory protection if ventilation is inadequate.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact. tight-fitting protective goggles with face screen

Skin and body protection	:	chemical-resistant disposable coveralls Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	pungent
pH	:	3.5 - 5.0
Melting point/ range	:	not determined
Boiling point/boiling range	:	37 °C

Flash point	:	-4 °C Method: ISO 3679
Evaporation rate	:	not determined
Flammability	:	Highly flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	> 35 g/m3
Vapor pressure	:	0.0260 hPa (20 °C) Method: calculated not determined (50 °C)
Density	:	1.080 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures

Autoignition temperature	:	> 200 °C
Decomposition temperature	:	The product is capable of self-sustaining progressive thermal decomposition.
Self-Accelerating decomposition temperature (SADT)	:	60 °C
Viscosity		
Viscosity, kinematic	:	6.0 mm2/s (23 °C)
		not determined (40 °C)
Flow time	:	< 30 s (23 °C) Cross section: 3 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.

Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Heat, flames and sparks. Avoid impact, friction and electrostatic loading. Avoid direct sunlight.
Incompatible materials	:	Bases Organic materials Oxidizing agents Reducing agents, heavy metal compounds, acids, alkalis, contamination.
Hazardous decomposition products	:	Carbon oxides Nitrogen oxides (NOx)

Section 11: Toxicological information

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1,668 mg/kg Method: Calculation method

Skin corrosion/irritation

Causes severe burns.

Components:

ethyl acetate:

Assessment	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization
Based on available data, the classification criteria are not met.

Respiratory sensitization
Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration toxicity
Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential

Components:

diacetonealcohol:

Partition coefficient: n-octanol/water	:	log Pow: -0.09

cyclohexanone peroxide:

Partition coefficient: n-octanol/water	:	log Pow: 1.2 (29 °C) Method: OECD Test Guideline 117 GLP: No information available.

ethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 0.68 (25 °C) pH: 7 GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (CYCLOHEXANONE PEROXIDE(S)) (CYCLOHEXANONE PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (CYCLOHEXANONE PEROXIDE(S)) (CYCLOHEXANONE PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxide, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passenger aircraft)	:	570

IMDG-Code

UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (CYCLOHEXANONE PEROXIDE(S)) (CYCLOHEXANONE PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (CYCLOHEXANONE PEROXIDE(S)) (CYCLOHEXANONE PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Hazchem Code	:	2WE
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002663 Surface Coatings and Colourants Flammable Corrosive Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	21.11.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

948-36 0,05KG hardener paste

Version	Revision Date:	SDS Number:	Date of last issue: 02.06.2025
3.0	14.11.2025	000000000050223190	Date of first issue: 17.05.2022

Section 1: Identification

Product name : 948-36 0,05KG hardener paste

Product code : 000000000050223190

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Putty

Section 2: Hazard identification

GHS Classification

Organic peroxides : Type E

Serious eye damage/eye irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity - repeated exposure	:	Category 2
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P240 Ground and bond container and receiving equipment.
P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

Storage:

P403 Store in a well-ventilated place.

P410 Protect from sunlight.

P411 Store at temperatures not exceeding 25 °C/ 77 °F.

P420 Store separately.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature	:	organic peroxide polyether fillers Water cellulose ester

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Benzoyl peroxide	dibenzoyl peroxide	94-36-0	Organic peroxides, Type B Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 Hazardous to the aquatic environment - acute hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 1	>= 30 -< 50
maleic acid dibutyl ester	dibutyl maleate	105-76-0	Skin sensitization, Category 1 Specific target organ toxicity - repeated exposure, Category 2	>= 20 -< 30
calcium carbonate	calcium carbonate	471-34-1		>= 1 -< 10
Magnesium carbonate	magnesium carbonate	546-93-0		>= 1 -< 10

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and

		transport in stable sideways position (recovery position). Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Move out of dangerous area.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately.
In case of eye contact	:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated

exposure.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Dusts may cause mechanical irritation to eyes.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Dry powder

Carbon dioxide (CO2)

Water spray

Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Has a fire-promoting effect due to release of oxygen.

Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers/tanks with water spray.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	1W

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing dust. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted. Avoid dust formation.
Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency

		shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Protect from moisture. Avoid creating dust.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Protect from moisture. Keep in a dry, cool and well-ventilated place.

Materials to avoid	:	Reducing agents, heavy metal compounds, acids, alkalis, contamination. Oxidizing agents Organic materials
Recommended storage temperature	:	5.00 - 25.00 °C
Packaging material	:	Suitable material: Polypropylene, Low density polyethylene (LDPE), High density polyethylene (HDPE), Polyethylenetherephtalate (PET)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzoyl peroxide	94-36-0	WES-TWA	5 mg/m3	NZ OEL
	Further information: Skin sensitizer			
		TWA	5 mg/m3	ACGIH
calcium carbonate	471-34-1	WES-TWA	10 mg/m3 (Calcium carbonate)	NZ OEL
Magnesium carbonate	546-93-0	WES-TWA	10 mg/m3	NZ OEL

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Wear respiratory protection if ventilation is inadequate.

Hand protection

Remarks : Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding >

		10 minutes of permeation time according to EN ISO 374-1)
		Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact.
		tight-fitting protective goggles with face screen
Skin and body protection	:	chemical-resistant disposable coveralls
		Care should be taken in the selection of protective clothing to ensure that inflammation of the skin at neck and wrists through contact with the powder is avoided.
Protective measures	:	Eye wash fountains and safety showers must be easily accessible.
		If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.
		Avoid contact with the skin, eyes and clothing.
		Handle in accordance with good industrial hygiene and safety practice.
		Avoid breathing dust.

Section 9: Physical and chemical properties

Appearance	:	paste
Color	:	red
Odor	:	characteristic
pH	:	substance/mixture is non-soluble (in water)

Melting point/ range	:	not determined
Boiling point/boiling range	:	Study technically not feasible.
Flash point	:	not applicable, the product is a solid
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined (50 °C) not determined (20 °C) The product is a non-volatile solid.
Relative vapor density	:	The product is a non-volatile solid.
Density	:	1.001 g/cm3 (20 °C)

Solubility(ies)		
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	The product is capable of self-sustaining progressive thermal decomposition.
Self-Accelerating decomposition temperature (SADT)	:	50 °C
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	not determined (40 °C) not determined (23 °C)
Flow time	:	> 670 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.

Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	No data available

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Dust can form an explosive mixture in air.
Conditions to avoid	:	Heat. Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid dust formation.
Incompatible materials	:	Organic materials Oxidizing agents Reducing agents, heavy metal compounds, acids, alkalis, contamination.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Carbon oxides

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity
Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential

Components:

Benzoyl peroxide:

Partition coefficient: n-octanol/water	:	log Pow: 3.2 (22 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

maleic acid dibutyl ester:

Partition coefficient: n-octanol/water	:	log Pow: 3.39 (25 °C) pH: 7 Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	yes

IATA-DGR

UN/ID No.	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxide, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passenger aircraft)	:	570

IMDG-Code

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

(DIBENZOYL PEROXIDE)

Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Hazchem Code	:	1W
Marine pollutant	:	yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002629 Organic Peroxides Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for

Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

We create chemistry

Safety data sheet

BASF Safety data sheet
Date / Revised: 30.03.2024 Version: 4.0
Product: **965-55 2,5L CV Epoxy hardener**

(50606704/SDS_GEN_NZ/EN)
Date of print: 15.04.2024

1. Substance/preparation and manufacturer/supplier identification

Product name:
965-55 2,5L CV Epoxy hardener

Use: hardener

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:
Skin corrosion/irritation: Cat.2
Serious eye damage/eye irritation: Cat.1
Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)
Specific target organ toxicity — single exposure: Cat.3 (May cause drowsiness and dizziness.)
Specific target organ toxicity — repeated exposure: Cat.2
Hazardous to the aquatic environment - acute: Cat.2
Hazardous to the aquatic environment - chronic: Cat.3
Flammable liquids: Cat.3

Label elements and precautionary statement:

Pictogram:



Signal Word:
Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe dust or mist.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P310	Immediately call a POISON CENTER or physician.
P332 + P313	If skin irritation occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

organic solvent, polyamide

Hazardous ingredients

xylene

Content (W/W): >= 20 % - < 25 % CAS Number: 1330-20-7	Asp. Tox.: Cat. 1 Flam. Liq.: Cat. 3 Acute Tox.: Cat. 5 (Inhalation - vapour) Acute Tox.: Cat. 5 (oral) Skin Irrit.: Cat. 2 Eye Irrit.: Cat. 2B STOT SE: Cat. 3 (irr. to respiratory syst.) Aquatic Chronic: Cat. 3 STOT RE (Central nervous system, Liver, Kidney): Cat. 2 Aquatic Acute: Cat. 2

1-methoxypropan-2-ol

Content (W/W): >= 10 % - < 12.5 % CAS Number: 107-98-2	Flam. Liq.: Cat. 3 Acute Tox.: Cat. 5 (oral) STOT SE: Cat. 3 (drowsiness and dizziness)

isobutyl alcohol

Content (W/W): >= 7 % - < 10 % CAS Number: 78-83-1	Asp. Tox.: Cat. 2 Flam. Liq.: Cat. 3 Acute Tox.: Cat. 5 (oral) Acute Tox.: Cat. 5 (dermal) Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 1 STOT SE: Cat. 3 (drowsiness and dizziness) STOT SE: Cat. 3 (irr. to respiratory syst.)

ethylbenzene

Content (W/W): >= 3 % - < 5 %	Asp. Tox.: Cat. 1
CAS Number: 100-41-4	Flam. Liq.: Cat. 2
	Acute Tox.: Cat. 4 (Inhalation - vapour)
	Acute Tox.: Cat. 5 (oral)
	STOT RE (Auditory organ): Cat. 2
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 3

n-butanol

Content (W/W): >= 3 % - < 5 %	Flam. Liq.: Cat. 3
CAS Number: 71-36-3	Acute Tox.: Cat. 5 (oral)
	Acute Tox.: Cat. 5 (dermal)
	Skin Corr./Irrit.: Cat. 2
	Eye Dam./Irrit.: Cat. 1
	STOT SE: Cat. 3 (drowsiness and dizziness)
	STOT SE: Cat. 3 (irr. to respiratory syst.)

1-Propanamine, 3-(trimethoxysilyl)-

Content (W/W): >= 2.5 % - < 3 %	Flam. Liq.: Cat. 4
CAS Number: 13822-56-5	Acute Tox.: Cat. 5 (oral)
	Skin Corr./Irrit.: Cat. 2
	Eye Dam./Irrit.: Cat. 1

Solventnaphtha (petroleum), light aromatic

Content (W/W): >= 2 % - < 2.5 %	Asp. Tox.: Cat. 1
CAS Number: 64742-95-6	Flam. Liq.: Cat. 3
	STOT SE: Cat. 3 (drowsiness and dizziness)
	STOT SE: Cat. 3 (irr. to respiratory syst.)
	Aquatic Chronic: Cat. 2

2,2'-iminodi(ethylamine)

Content (W/W): >= 0.2 % - < 0.3 %	Acute Tox.: Cat. 4 (oral)
CAS Number: 111-40-0	Acute Tox.: Cat. 2 (Inhalation - mist)
	Acute Tox.: Cat. 4 (dermal)
	Skin Corr.: Cat. 1B
	Eye Dam.: Cat. 1
	Skin Sens.: Cat. 1B
	STOT SE: Cat. 3 (irr. to respiratory syst.)
	Aquatic Acute: Cat. 3

Amines, polyethylene poly-, triethylenetetramine fraction

Content (W/W): >= 0.1 % - < 0.2 %	Acute Tox.: Cat. 4 (oral)
CAS Number: 112-24-3	Acute Tox.: Cat. 4 (dermal)
	Eye Dam./Irrit.: Cat. 1
	Skin Sens.: Cat. 1
	Aquatic Chronic: Cat. 3
	Skin Corr./Irrit.: Cat. 1B

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Note to physician:
Symptoms: allergic symptoms, dazed state, irritation of respiratory tract, skin irritation, dizziness,
Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:
Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:
Do not allow to enter drains or waterways.If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)
Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:
Storage temperature: 5.00 - 35.00 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

n-butanol, 71-36-3;
TWA value 20 ppm (ACGIHTLV)
Skin Designation (OEL (NZ))
Skin absorption can be significant.
CLV 150 mg/m3 ; 50 ppm (OEL (NZ))

isobutyl alcohol, 78-83-1;
TWA value 50 ppm (ACGIHTLV)
TWA value 152 mg/m3 ; 50 ppm (OEL (NZ))

ethylbenzene, 100-41-4;
TWA value 20 ppm (ACGIHTLV)
TWA value 88 mg/m3 ; 20 ppm (OEL (NZ))
STEL value 176 mg/m3 ; 40 ppm (OEL (NZ))
Skin Designation (OEL (NZ))
Skin absorption can be significant.

1-methoxypropan-2-ol, 107-98-2;
TWA value 50 ppm (ACGIHTLV)
STEL value 100 ppm (ACGIHTLV)
TWA value 369 mg/m3 ; 100 ppm (OEL (NZ))
STEL value 553 mg/m3 ; 150 ppm (OEL (NZ))

2,2'-iminodi(ethylamine), 111-40-0;
TWA value 1 ppm (ACGIHTLV)
TWA value 4.2 mg/m3 ; 1 ppm (OEL (NZ))
Skin Designation (OEL (NZ))
Skin absorption can be significant.
Skin Designation (ACGIHTLV)
Danger of cutaneous absorption
Skin Designation (ACGIHTLV)
Danger of cutaneous absorption

xylene, 1330-20-7;
TWA value 20 ppm (ACGIHTLV)
TWA value 217 mg/m3 ; 50 ppm (OEL (NZ))

Solventnaphtha (petroleum), light aromatic, 64742-95-6;

Personal protective equipment

Respiratory protection:
Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
nitrile gloves - material thickness: 0,35 mm

Eye protection:
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:
chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid
Colour:	brown
Odour:	amine-like
pH value:	
	substance/mixture is non-polar/aprotic

Melting point:		
	not determined	
onset of boiling:		
	not determined	
Flash point:	> 23 °C	(ISO 3679)
Evaporation rate:		
	not determined	
Flammability (solid/gas):	Flammable liquid and vapour.	
Lower explosion limit:	36 g/m3	
Ignition temperature:	> 200.00 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Self heating ability:	It is not a material capable of spontaneous heating	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:		
	(20 °C) not determined	
	(50 °C) not determined	
Density:	0.931 g/cm3 (20 °C)	
Relative vapour density (air):		
	Heavier than air.	
Solubility in water:	not determined	
Miscibility with water:		
	immiscible	
Partitioning coefficient n-octanol/water (log Pow):		
	not applicable for mixtures	
Viscosity, dynamic:		
	No applicable information available.	
Viscosity, kinematic:	84.6 mm2/s (23 °C)	
	(40 °C) No data available.	
Flow time:	> 63 s (23 °C)	(DIN EN ISO 2431; 4 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous reactions:
Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

Reactivity:
No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Based on available data, the classification criteria are not met.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Symptoms

allergic symptoms dazed state irritation of respiratory tract skin irritation dizziness Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:
Skin contact causes irritation. May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Harmful to aquatic life with long lasting effects. Toxic to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: ethylbenzene
Elimination information:
70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: 2,2'-iminodi(ethylamine)
Elimination information:
87 % BOD of the ThOD (21 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, activated sludge, domestic, non-adapted)

50 % Specific analysis (30 d) (OECD Guideline 307) (aerobic, soil)

50 % Specific analysis (20 - 28 d) (OECD Guideline 309) (aerobic, aerobic microorganisms)

Information on: xylene
Elimination information:
87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Domestic transport:

UN number or ID number:	UN 1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Further information
Hazchem Code:3Y
IERG Number:14

Sea transport
IMDG

UN number or ID number:	UN 1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no Marine pollutant: NO
Special precautions for user:	EmS: F-E; S-E

Air transport
IATA/ICAO

UN number or ID number:	UN 1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

15. Regulatory Information

Other regulations

HSNO Approval Number HSR002662
Surface Coatings and Colourants (Flammable) Group Standard 2017

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
Tracking requirements do not apply to this substance.
A certified handler is not required for the handling of this substance.

16. Other Information

For multi-pack systems observe material safety data sheets of all components.Restricted to professional users.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Section 1: Identification

Product name : 965-715 2,5L

Product code : 000000000050755786

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Coatings and related products

Section 2: Hazard identification

GHS Classification

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Liver, Central nervous system, Auditory system)
Aspiration hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements :
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : polyamide
organic solvent

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
xylene	xylenes	1330-20-7	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - single exposure (Respiratory system), Category 3 Specific target organ toxicity - repeated exposure (Kidney, Liver, Central nervous system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment	>= 20 -< 25

			- chronic hazard, Category 3	
1-methoxypropan-2-ol	1-methoxypropan-2-ol	107-98-2	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Central nervous system), Category 3	>= 20 -< 30
isobutyl alcohol	2-methylpropan-1-ol	78-83-1	Flammable liquids, Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3	>= 10 -< 20
Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	64742-95-6	Flammable liquids, Category 3 Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard,	>= 2.5 -< 10

			Category 2	
ethylbenzene	ethylbenzene	100-41-4	Flammable liquids, Category 2 Acute toxicity (Inhalation), Category 4 Specific target organ toxicity - repeated exposure (Auditory system), Category 2 Aspiration hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 2.5 -< 10
Amines, polyethylene poly-, triethylenetetramine fraction	Amines, polyethylenepoly-, triethylenetetramine fraction	90640-67-8	Acute toxicity (Oral), Category 4 Acute toxicity (Dermal), Category 4 Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 3	>= 1 -< 2.5

Section 4: First-aid measures

General advice	:	In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident. Keep patient warm and at rest. Never give anything by mouth to an unconscious person. Move out of dangerous area. Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately.
In case of skin contact	:	Do NOT use solvents or thinners. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest.

If swallowed, call a poison control center or doctor immediately.

Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

Risk of product entering the lungs on vomiting after ingestion.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods	:	Cool containers/tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	3Y

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing vapours. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition.

For emergency responders:

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Avoid subsoil penetration.

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear.

Solvent vapors are heavier than air and spread along floors. Vapor forms explosive mixtures with air.

The relevant fire protection measures should be noted.

Use explosion-proof equipment.

Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist.
Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one.

Observe label precautions.

Keep in a dry, cool and well-ventilated place.

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Packaging material : Suitable material: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene, Stainless steel 1.4301 (V2), Carbon steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m3	NZ OEL
	Further information: Ototoxin			
		TWA	20 ppm	ACGIH
1-methoxypropan-2-ol	107-98-2	WES-TWA	100 ppm 369 mg/m3	NZ OEL
		WES-STEL	150 ppm 553 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH

		STEL	100 ppm	ACGIH
isobutyl alcohol	78-83-1	WES-TWA	50 ppm 152 mg/m3	NZ OEL
		TWA	50 ppm	ACGIH
Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0)	64742-95-6	WES-TWA	300 ppm 890 mg/m3	NZ OEL
		WES-STEL	500 ppm 1,480 mg/m3	NZ OEL
ethylbenzene	100-41-4	WES-TWA	20 ppm 88 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		WES-STEL	40 ppm 176 mg/m3	NZ OEL
	Further information: Ototoxin, Skin absorption			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As soon as	1.5 g/g creatinine	ACGIH BEI

				possible after exposure ceases)		
ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acids	Urine	End of exposure or end of shift	0.25 g/g creatinine	NZ BEI
		Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Suitable respiratory equipment:

half-mask with A2P2 class combination filter

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. nitrile gloves - material thickness: 0,35 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact. Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
Skin and body protection	:	chemical-resistant disposable coveralls Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
Protective measures	:	Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits,

appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Appearance	:	liquid
Color	:	orange
Odor	:	amine-like
pH	:	substance/mixture is non-polar/aprotic
Melting point/ range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	25 °C Method: ISO 3679
Flammability	:	Flammable liquid and vapour.
Upper explosion limit / Upper flammability limit	:	not determined

Lower explosion limit / Lower flammability limit	:	> 35.0 g/m3
Vapor pressure	:	not determined (20 °C) not determined (50 °C)
Density	:	0.915 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity Viscosity, kinematic	:	195.5 mm2/s (23 °C) 7.4 mm2/s (40 °C)
Flow time	:	> 30 s (23 °C) Cross section: 6 mm Method: ISO 2431

Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics Particle size	:	The substance / product is marketed or used in a non solid or granular form.

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapours may form ignitable mixture with air.
Conditions to avoid	:	Avoid direct sunlight. Heat, flames and sparks.
Incompatible materials	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system, Auditory system) through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

xylene:

Partition coefficient: n-octanol/water	:	log Pow: 3.12 - 3.20 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

1-methoxypropan-2-ol:

Partition coefficient: n-octanol/water	:	log Pow: -0.43 (25 °C) GLP: no Remarks: Information taken from reference works and the literature.

isobutyl alcohol:

Partition coefficient: n-octanol/water	:	Pow: 10 (25 °C) log Pow: 1 (25 °C) Method: OECD Test Guideline 117 GLP: yes

Solvent naphtha (petroleum), light arom. (CAS EU: 128601-23-0):

Partition coefficient: n-octanol/water	:	log Pow: 3.17 GLP: no

ethylbenzene:

Partition coefficient: n-octanol/water	:	Pow: 4,170 (20 °C) log Pow: 3.6 (20 °C) pH: 7.8 GLP: yes

Amines, polyethylene poly-, triethylenetetramine fraction:

Partition coefficient: n-	:	log Pow: -2.08 (20 °C)

octanol/water	GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	UN 1866

Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 1866
Proper shipping name	:	RESIN SOLUTION
Class	:	3

Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number
HSR002662 Surface Coatings and Colourants Flammable Group Standard

Tolerable Exposure Limits (TEL)
Not applicable

Environmental Exposure Limits (EEL)
Not applicable

HSW Controls
Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NZ BEI	:	New Zealand. Biological Exposure Indices
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-STEL	:	Workplace Exposure Standard - Short-Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention

for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

G-H-110 0,05KG

Version	Revision Date:	SDS Number:	Date of last issue: 02.06.2025
3.0	14.11.2025	000000000050736202	Date of first issue: 17.05.2022

Section 1: Identification

Product name : G-H-110 0,05KG

Product code : 000000000050736202

Manufacturer or supplier's details

BASF Coatings and Chemetall New Zealand Limited
Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
E-mail address: nzadmin@basf.com

Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

Recommended use of the chemical and restrictions on use

Recommended use : Putty

Section 2: Hazard identification

GHS Classification

Organic peroxides : Type E

Serious eye damage/eye irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity - repeated exposure	:	Category 2
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements :
H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P240 Ground and bond container and receiving equipment.
P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.
Storage:
P403 Store in a well-ventilated place.
P410 Protect from sunlight.
P411 Store at temperatures not exceeding 25 °C/ 77 °F.
P420 Store separately.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Chemical nature : organic peroxide
polyether
fillers
Water
cellulose ester

Components

Chemical name	Common Name/Synonyms	CAS-No.	Classification	Concentration (% w/w)
Benzoyl peroxide	dibenzoyl peroxide	94-36-0	Organic peroxides,	>= 30 -< 50

			Type B Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 Hazardous to the aquatic environment - acute hazard, Category 1 Hazardous to the aquatic environment - chronic hazard, Category 1	
maleic acid dibutyl ester	dibutyl maleate	105-76-0	Skin sensitization, Category 1 Specific target organ toxicity - repeated exposure, Category 2	>= 20 -< 30
calcium carbonate	calcium carbonate	471-34-1		>= 1 -< 10
Magnesium carbonate	magnesium carbonate	546-93-0		>= 1 -< 10

Section 4: First-aid measures

General advice : Never give anything by mouth to an unconscious person.
First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.

		Move out of dangerous area.
If inhaled	:	If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately.
In case of eye contact	:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
If swallowed	:	Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in

Section 11.

Dusts may cause mechanical irritation to eyes.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Dry powder

Carbon dioxide (CO2)

Water spray

Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Has a fire-promoting effect due to release of oxygen.

Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Advice for firefighters

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Cool containers/tanks with water spray.

Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.
Hazchem Code	:	1W

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Avoid breathing dust. For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
Environmental precautions	:	Do not allow uncontrolled discharge of product into the environment. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up	:	Avoid dust formation. Contain and collect mechanically and dispose of in accordance with local regulations. Ensure adequate ventilation.

Section 7: Handling and storage

Advice on protection against fire and explosion	:	Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted. Avoid dust formation.
Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Protect from moisture. Avoid creating dust.

Hygiene measures	:	Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.
Further information on storage conditions	:	Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Protect from moisture. Keep in a dry, cool and well-ventilated place.
Materials to avoid	:	Reducing agents, heavy metal compounds, acids, alkalis, contamination. Oxidizing agents Organic materials
Recommended storage temperature	:	5.00 - 25.00 °C

Packaging material : Suitable material: Polypropylene, Low density polyethylene (LDPE), High density polyethylene (HDPE), Polyethylenetherephtalate (PET)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzoyl peroxide	94-36-0	WES-TWA	5 mg/m3	NZ OEL
	Further information: Skin sensitizer			
		TWA	5 mg/m3	ACGIH
calcium carbonate	471-34-1	WES-TWA	10 mg/m3 (Calcium carbonate)	NZ OEL
Magnesium carbonate	546-93-0	WES-TWA	10 mg/m3	NZ OEL

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Wear respiratory protection if ventilation is inadequate.

Hand protection

Remarks	:	Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) Preventive skin protection
Eye protection	:	Required when there is a risk of eye contact. tight-fitting protective goggles with face screen
Skin and body protection	:	chemical-resistant disposable coveralls Care should be taken in the selection of protective clothing to ensure that inflammation of the skin at neck and wrists through contact with the powder is avoided.
Protective measures	:	Eye wash fountains and safety showers must be easily

accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Avoid breathing dust.

Section 9: Physical and chemical properties

Appearance	:	paste
Color	:	red
Odor	:	characteristic
pH	:	substance/mixture is non-soluble (in water)
Melting point/ range	:	not determined
Boiling point/boiling range	:	Study technically not feasible.
Flash point	:	not applicable, the product is a solid
Flammability (solid, gas)	:	Will not burn

Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined (50 °C) not determined (20 °C) The product is a non-volatile solid.
Relative vapor density	:	The product is a non-volatile solid.
Density	:	1.001 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	The product is capable of self-sustaining progressive thermal decomposition.
Self-Accelerating	:	50 °C

decomposition temperature (SADT)		
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	not determined (40 °C) not determined (23 °C)
Flow time	:	> 670 s (23 °C) Cross section: 6 mm Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle characteristics		
Particle size	:	No data available

Section 10: Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Dust can form an explosive mixture in air.
Conditions to avoid	:	Heat.

		Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid dust formation.
Incompatible materials	:	Organic materials Oxidizing agents Reducing agents, heavy metal compounds, acids, alkalis, contamination.
Hazardous decomposition products	:	Nitrogen oxides (NOx) Carbon oxides

Section 11: Toxicological information

Acute toxicity
Based on available data, the classification criteria are not met.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Based on available data, the classification criteria are not met.

Chronic toxicity

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Section 12: Ecological information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Benzoyl peroxide:

Partition coefficient: n-octanol/water	:	log Pow: 3.2 (22 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes

maleic acid dibutyl ester:

Partition coefficient: n-octanol/water	:	log Pow: 3.39 (25 °C) pH: 7 Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations

Disposal methods

Waste from residues	:	Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information

International Regulations

UNRTDG

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	yes

IATA-DGR

UN/ID No.	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxide, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passenger aircraft)	:	570

IMDG-Code

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE) (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

NZS 5433

UN number	:	UN 3108
Proper shipping name	:	ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Hazchem Code	:	1W
Marine pollutant	:	yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002629 Organic Peroxides Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

HSW Controls

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

Section 16: Other information

Revision Date	:	14.11.2025

Further information

Other information	:	Restricted to professional users. For multi-pack systems observe material safety data sheets of all components.
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NZ / EN

We create chemistry

Safety data sheet

BASF Safety data sheet
Date / Revised: 20.07.2023 Version: 1.0
Product: **G-H-115 0,05L**

(50783808/SDS_GEN_NZ/EN)
Date of print: 23.02.2024

1. Substance/preparation and manufacturer/supplier identification

Product name:
G-H-115 0,05L

Use: hardener

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

Emergency information:
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazard identification

Classification of the substance and mixture:
Acute toxicity: Cat.5 (oral)
Skin corrosion/irritation: Cat.1B
Serious eye damage/eye irritation: Cat.1
Reproductive toxicity: Cat.2 (unborn child)
Specific target organ toxicity — single exposure: Cat.3 (irritating to respiratory system)
Specific target organ toxicity — single exposure: Cat.3 (Vapours may cause drowsiness and dizziness.)
Organic Peroxides: Cat.Type D

Label elements and precautionary statement:

Pictogram:



Signal Word:
Danger

Hazard Statement:

H242	Heating may cause a fire.
H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging the unborn child.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection or face protection.
P235	Keep cool.
P264	Wash contaminated body parts thoroughly after handling.
P234	Keep only in original packaging.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust or mist.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use water spray for extinction.
P363	Wash contaminated clothing before reuse.
P310	Immediately call a POISON CENTER or physician.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403	Store in a well-ventilated place.
P420	Store separately.
P411	Store at temperatures not exceeding 20 °C/68 °F.
P410	Protect from sunlight.
P405	Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

organic peroxide, organic solvent

Hazardous ingredients

ethyl acetate

Content (W/W): >= 50 % - < 75 %	Flam. Liq.: Cat. 2
CAS Number: 141-78-6	Eye Dam./Irrit.: Cat. 2A
	STOT SE: Cat. 3 (drowsiness and dizziness)

diacetonealcohol

Content (W/W): >= 25 % - < 30 %	Flam. Liq.: Cat. 3
CAS Number: 123-42-2	Acute Tox.: Cat. 5 (oral)
	Eye Dam./Irrit.: Cat. 2A
	Repr.: Cat. 2 (unborn child)
	STOT SE: Cat. 3 (irr. to respiratory syst.)

cyclohexanone peroxide

Content (W/W): >= 10 % - < 12.5 %	Org. Perox.: Cat. A
	Acute Tox.: Cat. 4 (oral)
CAS Number: 12262-58-7	STOT SE: Cat. 3 (irr. to respiratory syst.)
	Skin Corr./Irrit.: Cat. 1B

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:
Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Keep at rest. Rinse mouth immediately with water.

Note to physician:
Symptoms: dazed state, irritation of respiratory tract, skin corrosion, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.
Treatment: Symptomatic treatment (decontamination, vital functions).
Antidote: No known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
Has a fire-promoting effect due to release of oxygen.

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions:
Avoid breathing vapours.For non-emergency personnel:Use personal protective clothing.Ensure adequate ventilation.Keep away from sources of ignition.For emergency responders:Advice on product handling can be found in sections 7 and 8 of this safety data sheet.Information regarding personal protective measures, see section 8.

Environmental precautions:
Do not allow to enter drains or waterways.If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
Contain and collect pastes with a plastic putty knife (see section 7). Contain and collect liquids with inert absorbent material such as vermiculite or perlite. Ensure adequate ventilation.

7. Handling and Storage

Handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Storage

Segregate from oxidants. Segregate from organic substances. Keep away from reducing agents (e.g. amines), acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Segregate from combustible materials.

Suitable materials for containers: tinned carbon steel (Tinplate), Carbon steel (Iron), Polypropylene (PP), Polyethylenetherephtalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE), Stove-lacquer C222A/C221A, Stove-lacquer NOVOCAN S-G 500, Stove-lacquer Vitalure 745, Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer R 78433, Stove-lacquer RDL 50
Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

8. Exposure controls and personal protection

Components with occupational exposure limits

diacetonealcohol, 123-42-2;

TWA value 50 ppm (ACGIHTLV)
TWA value 238 mg/m3 ; 50 ppm (OEL (NZ))

ethyl acetate, 141-78-6;
TWA value 400 ppm (ACGIHTLV)
TWA value 720 mg/m3 ; 200 ppm (OEL (NZ))

Biological Exposure Indices:
No data available.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
butyl rubber gloves - material thickness: 0.5 mm
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)
Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)

Eye protection:
tight-fitting protective goggles with face screen, Required when there is a risk of eye contact.

Body protection:
chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures:
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	pungent	
Odour threshold:	No data available.	
pH value:		
	substance/mixture not stable	
Melting point:		
	not determined	
onset of boiling:	77 °C	(calculated)
Flash point:	-4 °C	(ISO 3679)
Evaporation rate:		
	not determined	
Flammability (solid/gas):	not flammable	
Lower explosion limit:	1.4 %(V)	
Upper explosion limit:	11.5 %(V)	
	not determined	
Thermal decomposition:	The product is capable of self-sustaining progressive thermal decomposition.	
Self heating ability:	It is not a material capable of spontaneous heating	
SADT:	50 °C	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:		
	(20 °C)	
	not determined	
	(50 °C)	
	not determined	
Density:	1.000 g/cm3	
	(20 °C)	
Relative vapour density (air):		
	Heavier than air.	
Solubility in water:	not determined	
Miscibility with water:		
	immiscible	
Partitioning coefficient n-octanol/water (log Pow):		
	not applicable for mixtures	
Viscosity, kinematic:	6.0 mm2/s	
	(20 °C)	

	(40 °C) not determined	
Flow time:	< 30 s	(DIN EN ISO 2431; 3 mm)

10. Stability and Reactivity

Conditions to avoid:
Avoid heat. Avoid direct sunlight. Avoid impact, friction and electrostatic loading. Avoid all sources of ignition: heat, sparks, open flame. Avoid freezing.

Thermal decomposition:	The product is capable of self-sustaining progressive thermal decomposition.

Substances to avoid:
flammable, oxidizable substances, organic substances, Reducing agents, heavy metal compounds, acids, alkalis, contamination., oxidizing agents

Hazardous reactions:
Vapours may form ignitable mixture with air.

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced. Flammable vapours., No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

Reactivity:
No hazardous reactions if stored and handled as prescribed/indicated.

11. Toxicological Information

Routes of exposure

Assessment of acute toxicity

Of low toxicity after single ingestion.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Symptoms

dazed state irritation of respiratory tract skin corrosion dizziness Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Irritation

Assessment of irritating effects:
The liquid splashed in the eyes may cause irritation and reversible damage. Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Respiratory/Skin sensitization

Assessment of sensitization:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Specific target organ toxicity (single exposure)

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Based on available data, the classification criteria are not met.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
There are no test results available for this product. Do not allow to enter drains or waterways. Based on available data, the classification criteria are not met.

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
No data available concerning biodegradation and elimination.

Bioaccumulation potential

Bioaccumulation potential:
No data available.

13. Disposal Considerations

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Domestic transport:

UN number or ID number:	UN 3105
UN proper shipping name:	ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone peroxide)
Transport hazard class(es):	5.2
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	Protect from heat

Further information
Hazchem Code:2WE
IERG Number:32

Sea transport
IMDG

UN number or ID number:	UN 3105
UN proper shipping name:	ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone peroxide)
Transport hazard class(es):	5.2
Packing group:	Not applicable
Environmental hazards:	no Marine pollutant: NO
Special precautions for user:	EmS: F-J; S-R Protect from heat

Air transport
IATA/ICAO

UN number or ID number:	UN 3105
UN proper shipping name:	ORGANIC PEROXIDE TYPE D, LIQUID (cyclohexanone peroxide)
Transport hazard class(es):	5.2
Packing group:	Not applicable
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	Protect from heat

15. Regulatory Information

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.
Tracking requirements do not apply to this substance.
A certified handler is not required for the handling of this substance.

HSNO Approval Number HSR002658
Surface Coatings and Colourants (Corrosive) Group Standard 2017

16. Other Information

For multi-pack systems observe material safety data sheets of all components.Restricted to professional users.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.