

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.03.2010

V - 1

Revision: 07.01.2010

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** **CARSYSTEM ELASTIC GREEN**

· **Application of the substance / the preparation** Knife filler/ Surfacers

· **Manufacturer/Supplier:**

Vosschemie GmbH

Esinger Steinweg 50

D-25436 Uetersen

Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de

· **Further information obtainable from:**

Abteilung Labor / +49 (0)4122 717 0

s.schaller@vosschemie.de

· **Information in case of emergency:**

Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland

+49 (0)551 19240, +49 (0)551 383180

2 Hazards identification

· **Hazard description:**



Xn Harmful

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 10 Flammable.

R 20 Harmful by inhalation.

R 36/38 Irritating to eyes and skin.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 100-42-5	styrene	Xn, Xi; R 10-20-36/38	10-25%
EINECS: 202-851-5		Warning: 2.6/3; 3.1.1/4, 3.2/2, 3.3/2	

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

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- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Call a doctor immediately.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
Keep away from ignition sources.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.

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Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Keep ignition sources away - Do not smoke.
- **Recommended storage temperature:** < 30°C

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

100-42-5 styrene

WEL (Great Britain)	Short-term value: 1080 mg/m ³ , 250 ppm Long-term value: 430 mg/m ³ , 100 ppm
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Store protective clothing separately.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Use skin protection cream for skin protection.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
No special procedures required if all workplace limit values are continuously respected.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter A/P2
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each anewed use of the glove.
Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**
Fluorocarbon rubber (Viton)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Pasty
Colour:	Green
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 145°C

- **Flash point:** 31°C

- **Ignition temperature:** 480°C

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower:	1.2 Vol %
Upper:	8.9 Vol %

- **Vapour pressure at 20°C:** 6 hPa

- **Density at 20°C:** 1.9 g/cm³

- **Solubility in / Miscibility with**

water:	Not miscible or difficult to mix.
VOC (EC)	2004/42/IIB (b) (250) <250

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

- **Dangerous reactions**

Reacts with peroxides and other radical forming substances.
Exothermic polymerization.

- **Dangerous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

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11 Toxicological information· **Acute toxicity:**· **LD/LC50 values relevant for classification:****100-42-5 styrene**

Oral	LD50	5000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

12 Ecological information· **Information about elimination (persistence and degradability):****100-42-5 styrene**

OECD 301 C >60 % (lit.)

· **Behaviour in environmental systems:**· **Mobility and bioaccumulation potential:****100-42-5 styrene**

log Pow 3.16 (lit.)

· **Ecotoxicological effects:**· **Aquatic toxicity:****100-42-5 styrene**

LC50 (48h) 23 mg/l (daphnia magna)

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations· **Product:**· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **European waste catalogue**

07 02 08 other still bottoms and reaction residues

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 3 Flammable liquids.
- **UN-Number:** 1866
- **Packaging group:** III
- **Description of goods:** 1866 RESIN SOLUTION
- **Limited quantities (LQ) LQ7**
- **Remarks:** ADR 2.2.3.1.5

- **Maritime transport IMDG:**
- **IMDG Class:** 3
- **UN Number:** 1866
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Proper shipping name:** RESIN SOLUTION

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Packaging group:** III
- **Proper shipping name:** RESIN SOLUTION

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**
styrene
- **Risk phrases:**
10 Flammable.
20 Harmful by inhalation.
36/38 Irritating to eyes and skin.
- **Safety phrases:**
2 Keep out of the reach of children.
23 Do not breathe fumes/aerosol.
38 In case of insufficient ventilation, wear suitable respiratory equipment.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

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- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
10 Flammable.
20 Harmful by inhalation.
36/38 Irritating to eyes and skin.
- **Department issuing MSDS:** Abteilung Labor
- **Contact:** Frau S. Schaller

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1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *BPO-Paste rot/weiss/farblos*
- **Application of the substance / the preparation** *Hardening agent/ Curing agent*
- **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
- **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
- **Information in case of emergency:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
+49 (0)551 19240, +49 (0)551 383180

2 Hazards identification

- **Hazard description:**



Xi Irritant
O Oxidising

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 7 May cause fire.
R 36 Irritating to eyes.
R 43 May cause sensitisation by skin contact.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Additional information:**
Flammable.
Risk of fire on contact with combustible substances or other substances effective in promoting the decomposition reaction.
Fire propagating effect due to oxygen release.
Thermal decomposition with temperatures above 50°C (SADT)
Pls. refer to section 10

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

- **Dangerous components:**

CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide	Xi, E; R 2-36-43 Danger: 2.15/B Warning: 3.3/2, 3.4.S/I	50-100%
CAS: 84-69-5 EINECS: 201-553-2	diisobutyl phthalate		0-35%

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Trade name: BPO-Paste rot/weiss/farblos

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· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the product promotes combustion.

May decompose explosively in absence of fire due to formation of vapour-air-mixture.

· **Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· **Additional information**

Remove undamaged containers from the danger zone.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use suitable respiratory protective device in case of insufficient ventilation.

Avoid contact with the eyes and skin.

Keep away from ignition sources.

Pls. refer to section 10

· **Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).

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Trade name: BPO-Paste rot/weiss/farblos

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Do not seal receptacle gas tight.
Dispose contaminated material as waste according to item 13.
Pls. refer to section 10

7 Handling and storage

· Handling:**· Information for safe handling:**

Keep receptacles tightly sealed.
Open and handle receptacle with care.
Do not return unused material to original containers – decomposition hazard!
Restrict the quantity stored at the work place.
Resistant to inert materials only.
Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.
Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds such as accelerator, desiccative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.
Avoid any direct contact with accelerators.
Weigh out and mix separately when processing polyester resins.
Avoid storage in containers with an airtight closure to prevent hazardous pressure build-up due to an eventual decomposition.
Avoid contact with the eyes and skin.
Ensure good ventilation/exhaustion at the workplace.
Do not inhale gases / fumes / aerosols.
Adhere to the workplace limit values and / or other threshold values.

· Information about fire - and explosion protection:

Protect from heat.
Keep ignition sources away - Do not smoke.
Prevent impact and friction.
Thermal decomposition with temperatures above 50°C under formation of explosive vapours/gases
Avoid naked flames, sparks, other ignition sources and sunlight.
Protect against electrostatic charges.
Anti-explosion protection required
Fumes can combine with air to form an explosive mixture.
Fire propagating effect due to oxygen release.
Keep apart from incompatible substances, dirt and high temperatures.
Pls. refer to section 10

· Storage:**· Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Store only in the original receptacle.
Prevent any seepage into the ground.
Adhere to the provisions of the Law on Water Protection.
Use only receptacles specifically permitted for this substance/product.

· Information about storage in one common storage facility:

Keep apart from other chemicals, in particular from accelerators.
Store away from foodstuffs.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Protect from contamination.
Store under lock and key and out of the reach of children.

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8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

94-36-0 dibenzoyl peroxide

WEL (Great Britain) Long-term value: 5 mg/m³

84-69-5 diisobutyl phthalate

WEL (Great Britain) Long-term value: 5 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Synthetic rubber gloves

Neoprene gloves

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

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Trade name: **BPO-Paste rot/weiss/farblos**· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· General Information

Form:	Pasty
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· **Flash point:** > 50°C· **Ignition temperature:** Not applicable· **Decomposition temperature:** 50°C (SADT)· **Self-igniting:** Pls. refer to section 10· **Danger of explosion:** Pls. refer to section 10· **Density at 20°C:** ~1.2 g/cm³· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Resistant to inert materials only.

Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

Thermal decomposition with temperatures above 50°C (SADT)

To avoid thermal decomposition do not overheat.

· Materials to be avoided:

Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds (such as accelerator, desiccative, metal soaps)

Avoid any direct contact with accelerators.

· Dangerous reactions

Thermal decomposition or direct contact with numerous additives, such as reducing agents (i.e. amine accelerator), heavy metal compounds (in particular cobalt accelerators), acids and alkaline solutions, may lead to hazardous, autoaccelerating decomposition reactions, and possibly, to explosion or fire.

· Dangerous decomposition products:

Formation of various organic degradation products and inflammable and explosive vapours/gases upon decomposition.

Danger of forming toxic pyrolysis products.

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11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

94-36-0 dibenzoyl peroxide

Oral	LD50	>5000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the eye:** Irritating effect.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Dilute product with suitable inert liquid to a peroxide concentration below 10% and subsequently dispose of according to the refuse disposal act.

- **Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

- **European waste catalogue**

16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 5.2 Organic peroxides.

- **UN-Number:** 3108

- **Packaging group:** -

- **Hazard label:** 5.2

- **Description of goods:** 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

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Trade name: BPO-Paste rot/weiss/farblos

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· Tunnel restriction code D

· Maritime transport IMDG:



- **IMDG Class:** 5.2
- **UN Number:**
- **Label** 5.2
- **Packaging group:** -
- **EMS Number:** F-J,S-R

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 5.2
- **UN/ID Number:**
- **Label** 5.2
- **Packaging group:** -

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xi Irritant
O Oxidising

· **Hazard-determining components of labelling:**

dibenzoyl peroxide

· **Risk phrases:**

- 7 May cause fire.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 3/7 Keep container tightly closed in a cool place.
- 14 Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds (such as accelerator, desiccative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 50 Do not mix with accelerators or reducing agents.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

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- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

84-69-5	diisobutyl phthalate
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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
2 Risk of explosion by shock, friction, fire or other sources of ignition.
36 Irritating to eyes.
43 May cause sensitisation by skin contact.
- **Department issuing MSDS: Abteilung Labor**
- **Contact: Frau S. Schaller**
- *** Data compared to the previous version altered.**

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