

MATERIAL SAFETY DATA SHEET

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Product Code(s): 4502

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Urethane Windshield Adhesive

Product Code(s): 4502 Made in USA

Manufacturer/Supplier:

TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

Distributor in New Zealand

R A Johnstone & Co Ltd
739 Great South Road, Otahuhu
PO Box 97 948 SAMC. Manukau 2240
Auckland. New Zealand

24 Hour Emergency Phone(s):

800-424-9300 (CHEMTREC),

613-996-6666 (CANUTEC)

Ph :+64 9 261 0333

Fax: + 64 9 261 0330

www.raj.co.nz

Business Phone: 810-220-3000

Product Use: Windshield adhesive

MSDS Prepared By: Transtar Autobody Technologies

Emergency telephone in New Zealand (24 hours)

National Poison Center: 0800 POISON [764 766]

2. COMPOSITION/INFORMATION ON INGREDIENTS

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any additional exposure limit guidelines.

Chemical Name	CAS #	PERCENT	OSHA PEL
Isocyanate prepolymer	ACC-68292	30 - 50	Not established
Carbon black	1333-86-4	10 - 30	TWA 3.5 MG/M3
Barium sulfate	7727-43-7	10 - 30	TWA (Total dust) 10 MG/M3 TWA (Respirable dust) 5 MG/M3
Xylene	1330-20-7	1 - 5	TWA 100 ppm STEL 150 ppm
Ethylbenzene	100-41-4	0.1 - 1	TWA 100 ppm STEL 125 ppm
Methylene bisphenyl diisocyanate	101-68-8	0.1 - 1	Ceiling 0.02 ppm
Diphenylmethane-2,4-diisocyanate	5873-54-1	0.1 - 1	0.02 ppm C

See Section 15. Regulatory Information for code descriptions
Weight percent (%) of 0.0 means chemical is in trace amounts.

3. HAZARDS IDENTIFICATION

WARNING! Can cause eye irritation.

Can cause skin irritation.

May cause allergic skin reaction.

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Moderate respiratory tract irritant.
May cause an allergic respiratory reaction.
Harmful if swallowed.



HMIS Hazard Ratings: Health = 2, Flammability = 1, Chemical Reactivity = 0

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Potential Health Effects

EYE: Can cause irritation.

SKIN: Can cause skin irritation. May cause sensitization.

INHALATION: Can cause moderate respiratory irritation. May cause allergic respiratory reaction.

Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs).

Overexposure to barium dust/fume may cause baritosis. Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

INGESTION: Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat, and stomach.

LONG-TERM (CHRONIC) HEALTH EFFECTS

REPRODUCTIVE: Contains a substance that is a probable reproductive hazard based on human studies.

CHRONIC: May cause tumors based on tests with laboratory animals.

TARGET ORGAN(S): Lungs Kidneys Liver Central nervous system Skin

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

Carbon black

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Persons with existing asthmatic conditions may experience difficulty breathing. Persons who have been sensitized to isocyanates may experience symptoms at very low exposure levels.; Lung disease; Blood disorders (like anemia)

The HSN0 Approval Number for this Group Standard is HSR002670

4. FIRST AID MEASURES

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

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IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: > 204°C (400°F) Cleveland Closed Cup

Upper Explosive Limit (UEL): No data

Lower Explosive Limit (LEL): No data

Autoignition Temperature: No data

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION

Material will burn in a fire.

HAZARDS:

SPECIAL FIRE FIGHTING

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

INSTRUCTIONS:

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide, Carbon monoxide Nitrogen containing gases Hydrogen cyanide

6. ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

CLEAN-UP: Cover with absorbent material. Place in open topped container. Remove to well-ventilated area and treat with aqueous ammonia. Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Emergency Phone Number (CHEMTREC): 1-800-424-9300

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7. HANDLING AND STORAGE

Handling: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Moisture contamination in closed containers may produce carbon dioxide gas pressure.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves.

GLOVES: Nitrile

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Use supplied-air respiratory equipment as required. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION: Use local exhaust ventilation or other engineering controls to minimize exposures.

EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	AIHA WEEL
Isocyanate prepolymer	Not established	Not established
Carbon black	TWA 3.5 MG/M3	Not established
Barium sulfate	TWA (Total dust) 10 MG/M3	Not established
Xylene	TWA 100 ppm STEL 150 ppm	Not established
Methylene bisphenyl diisocyanate	TWA 0.005 ppm	Not established

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Diphenylmethane-2,4-diisocyanate	0.005 ppm TWA	Not established
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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Semi-solid/Paste
COLOR:	Black
ODOR:	Mild
ODOR THRESHOLD:	Not established
WEIGHT PER GALLON (lbs.):	10.00
SPECIFIC GRAVITY:	1.20
SOLIDS (% by weight):	97.0
pH:	Not established
BOILING POINT (deg. C):	Not established
FREEZING/MELTING POINT (deg. C):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
EVAPORATION RATE:	Not established
OCTANOL/WATER COEFFICIENT:	Not established

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CONDITIONS TO AVOID:	Contact with water (reacts with water).
CHEMICAL INCOMPATIBILITY:	Strong oxidizing agents
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide Nitrogen containing gases Hydrogen cyanide

11. TOXICOLOGICAL INFORMATION

CHEMICAL NAME	LD50/LC50
Isocyanate prepolymer	Not established
Carbon black	Oral LD50 Rat >15400 mg/kg Dermal LD50 Rabbit > 3 g/kg
Barium sulfate	Not established
Xylene	Oral LD50 Rat = 4300 mg/kg Inhalation LC50 Rat = 5000 ppm/4H Dermal LD50 Rat = 1700 mg/kg
Methylene bisphenyl	Oral LD50 Rat 2200 mg/kg

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diisocyanate	Inhalation LC50 Rat 178 mg/cu m (no duration specified)
Diphenylmethane-2,4-diisocyanate	Not established

TOXICOLOGY SUMMARY: No additional health information available.

12. ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

13. DISPOSAL CONSIDERATIONS

It is our opinion that this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of waste material according to state, local or provincial regulations.

LAND DISPOSAL RESTRICTIONS: Xylenes (o-, m-, p- isomers)

14. TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED

15. REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
Xylene (mixed isomers)	1330-20-7	1 - 5
Methylenebis(phenylisocyanate) (MDI)	101-68-8	0.1 - 1

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

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D2A D2B D1A

STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:
Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List	CAS	Percent
Isocyanate Prepolymer	ACC-68292	30-50
Carbon Black	1333-86-4	10 - 30
Barium Sulfate	7727-43-7	10 - 30
Xylene	1330-20-7	1 - 5
Methylene bisphenyl diisocyanate	101-68-8	0.1 - 1
Diphenylmethane-2,4-diisocyanate	5873-54-1	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1

CANADA

Canadian DSL - All ingredients in this product are currently listed on the Canadian Domestic Substances List (DSL) and would not be considered new for the purposes of the Canadian Environmental Protection Act (CEPA).

New Zealand

The HSNO Approval Number for this Group Standard is HSR002670.

16. OTHER INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Transtar Autobody Technologies from its suppliers, and because Transtar Autobody Technologies has no control over the conditions of handling and use, Transtar Autobody Technologies makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Transtar Autobody Technologies assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Transtar Autobody Technologies products to comply with all applicable federal, state and local laws and regulation. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.
