

PRODUCT: 4502 - Urethane Windshield Adhesive

SECTION 01: IDENTIFICATION

Product identifier..... 4502 - Urethane Windshield Adhesive
 Initial supplier identifier..... Transtar Autobody Technologies
 2040 Heiserman dr.
 Brighton, Mi. 48114
 Tel (800) 824-2843

24 hour emergency number:..... CHEMTREC 24 Hour Emergency Phone(s): USA & Canada 800-424-9300
 International +1 703 741-5970.

Recommended use and restrictions on..... Adhesive applications. For Professional and Industrial Use Only. Not for sale to general public.
 use

Chemical family..... Aromatic isocyanate prepolymer.
 Hazard rating.....H: 2 F: 1 R: 1.

SECTION 02: HAZARD IDENTIFICATION



Hazard Classification..... Respiratory Sensitizer 1. Carcinogenicity — Category 2. Reproductive Toxicity — Category 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. Skin Sensitizer 1. Specific Target Organ Toxicity — Single Exposure — Category 3. Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Signal Word..... DANGER.

Hazard Description..... H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

Prevention..... P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P260 Do not breathe mist, vapors, or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area. P280 Wear protective gloves and eye protection.

Response P302 + P352 - If on skin: wash with plenty of water. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical help arrives. P308 + P313 If exposed or concerned, get medical advice/attention. P312 Call a POISON CENTER/doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - For specific treatment see section 4 on this SDS. P332 + P313 - If skin irritation occurs get medical attention or advice. P337 + P313 - If eye irritation persists get medical attention. P362 + P364 - Take off contaminated clothing and wash before reuse.

Storage..... P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store locked up.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-	25322-69-4	30-60
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	101-68-8	10-30
Di (2ethylhexyl) PHTHALATE	117-81-7	10-30
Carbon Black	1333-86-4	5-13

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SECTION 04: FIRST-AID MEASURES

Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Consult a physician if irritation continues.

Skin contact..... Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists, seek medical attention.

Inhalation..... Move to fresh air. Make victim comfortable for breathing. If symptoms persist, get medical attention.

Ingestion..... Do not induce vomiting. Rinse mouth with water. Get medical attention.

Most important symptoms and effects, May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to whether acute or delayed organs through prolonged or repeated exposure. Ingestion is likely to be harmful or have adverse effects. Treat symptomatically and supportively.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media..... Carbon dioxide. Dry chemical. Alcohol resistant foam. Water spray.

Unsuitable extinguishing media..... None known.

Specific hazards arising from the Irritating organic vapors may be formed.

hazardous product, such as the nature of any hazardous combustion products

Special protective equipment and Wear self-contained breathing apparatus. Use proper firefighting protective equipment. precautions for fire-fighters Combustion products may be hazardous to their health. Evacuate area. Use water spray to cool containers. Remove undamaged containers is safe to do so.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective Use personal protection equipment. Follow safe handling advice and personal protective equipment and emergency procedures equipment recommendations. Avoid breathing vapours. Avoid skin and eye contact with vapors. Remove all sources of ignition.

Environmental precautions..... Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.

Methods and materials for containment Soak up with inert material. Keep in suitable container for disposal. Dike area to contain the and cleaning up spill, prevent runoff from going into drains, absorb residual material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste. Clean up any residual material with absorbent and dispose of as hazardous waste. Inform all applicable Federal, Provincial and Local authorities of any spill.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Avoid skin and eye contact. Do not breathe vapours, mist or dust. Use adequate ventilation. Keep container closed when not in use. Wash thoroughly after handling. Protect from moisture. Individuals with lung or breathing problems or prior allergic reactions must not handle this product. Avoid water, heat, fire and oxides. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including any Store in properly labelled containers. Store locked up. Incompatible materials include:. incompatibilities Oxidizing agents. Organic peroxides. Acids. Foodstuffs. Explosives. Heat. Observe all local, provincial and national regulations.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Poly[oxy(methyl-1,2-ethan ediy)], a-hydro-w-hydroxy-	Not established	Not established	Not established	Not established	Not established
Benzene, 1,1'-methylenebis[4-isocy anato- (MDI)	0.005 ppm	Not established	0.005 ppm TWA	0.005 ppm AB OEL TWA	0.05 mg/m3
Carbon Black	3 mg/m3	Not established	3.5 mg/m3	Not established	3.5 mg/m3
	CA ON: 3 mg/m3 (Inhalable) TWA				
Personal Protective Equipment					
Eye/type.....	Chemical safety goggles. Consult your personal protective equipment supplier for additional recommendations.				
Respiratory/type.....	In case of insufficient ventilation, wear suitable respiratory equipment. An approved air purifying respirator with organic vapour cartridges and particulate prefilter can be used to minimize exposure.				

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Gloves/ type.....	Butyl rubber gloves. Break through time >120 minutes. Thickness 0.1mm. Wash hands before breaks and at the end of the workday. Consult your personal protective equipment supplier for additional recommendations.
Clothing/type.....	Wear impervious protective clothing. Consult your personal protective equipment supplier for additional recommendations.
Footwear/type.....	Safety boots per local regulations. Consult your personal protective equipment supplier for additional recommendations.
Other/type.....	Eye wash facility and emergency shower should be in close proximity. Employees should wash their hands and face before eating, drinking, or using tobacco products.
Appropriate engineering controls.....	Not available.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Paste.
Colour.....	Black
Odour.....	Peculiar.
Odour threshold (ppm).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	Not available.
pH.....	Not available.
Relative Density (Specific Gravity).....	Not available.
Melting / Freezing point (deg C).....	Not available.
Solubility.....	Poorly.
Initial boiling point / boiling range (deg C).....	Not available.
Evaporation rate.....	Not available.
Flash point (deg C), method.....	> 93°C.
Auto ignition temperature (deg C).....	Not available.
Upper flammable limit (% vol).....	Not available.
Lower flammable limit (% vol).....	Not available.
Partition coefficient — n-octanol/water.....	Not available.
Viscosity.....	Not available.
VOC LBS/GAL less water.....	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not classified as a reaction hazard.
Chemical stability.....	Stable at normal temperatures and pressures.
Conditions to avoid, including static discharge, shock or vibration	Moisture.
Possibility of hazardous reactions.....	No data.
Hazardous decomposition products.....	No data.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-	Not determined	500-2000 mg/kg (oral,rat); >10000 mg/kg (dermal, rabbit)
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	490 mg/m ³ 4 hr 0.369 mg/L 4 hr	9,200 mg/kg rat oral >7,900 mg/kg rabbit dermal
Di (2ethylhexyl) PHTHALATE	NOT ESTABLISHED	ORL-MAN TDL50: 143mg/kg
Carbon Black	Not available	>10,000 mg/kg (oral rat) 3,000 mg/kg (dermal rabbit)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Inhalation.....	Cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.	
Ingestion.....	Causes gastrointestinal irritation, nausea, vomiting and diarrhea.	
Eye contact.....	Bonds eyelids rapidly. Causes serious eye irritation,significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.	
Skin contact.....	Bonds skin rapidly. Causes skin irritation, localized redness, swelling, itching, and dryness. May cause allergic skin reaction. Can cause reddening, itching, and swelling. May cause blistering.	
Effects of acute exposure.....	No further relevant data.	
Sensitizing capability of material.....	Not available.	
Aspiration Hazard.....	Not available.	
Carcinogenicity of material.....	Not available.	
Reproductive effects.....	Not available.	
Serious eye damage/eye irritation.....	Not available.	

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Skin corrosion/irritation..... Not available.
 STOT-SE..... Not available.
 STOT-RE..... Not available.

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... No further relevant data.
 Bioaccumulative potential..... No further relevant data.
 Mobility in soil..... No further relevant data.
 Persistence and degradability..... No further relevant data.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable federal, provincial/State and local regulations. Industrial incineration is the preferred method. Empty containers retain product residue; observe all precautions for the product. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty containers with electric or gas torch as vapours and gases may be toxic.

SECTION 14: TRANSPORT INFORMATION

DOT/TDG Classification.....Not regulated.
 IATA Classification (Air)..... Not regulated.
 IMDG Classification (Marine)..... Not regulated.
 Marine Pollutant..... No.

SECTION 15: REGULATORY INFORMATION

CEPA status..... On Domestic Substances List (DSL).
 Categorization of the DSL..... Some components met the criteria under subsection 73(1) of CEPA during categorization of the DSL. Please check to see if this affects your company.
 National Pollutant Release Inventory (NPRI).....Some components are subject to reporting under NPRI. Please check your responsibility. Group: 1A. CAS # 101-68-8 . CAS # 117-81-7.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous substances None.
 Section 311/312 - hazard categories..... Immediate health, delayed health.
 Section 313..... Methylene diisocyanate (MDI). Polymeric diphenylmethane diisocyanate.
 EPA hazardous air pollutants (HAPS) 40CFR63 Methylene Diphenyl Diisocyanate (MDI). Hexamethylene diisocyanate.
 TSCA inventory status..... All components are either listed or exempt from the TSCA .
 California Proposition 65..... *WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm. (Carbon Black) and (Di (2ethylhexyl) Phthalate (DEHP)).

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.
 Telephone number:..... 800-824-2843
 Disclaimer:..... DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

Date of the latest revision of the safety data sheet .. 2023-06-29