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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M POLYURETHANE WINDSCREEN SEALER 08603 08615 08616

3M Product ID:
XS-0034-9108-0 XS-0034-9094-2

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
POLYURETHANE PREPOLYMER	68130-40-5	35 - 45
1,2-BENZENEDICARBOXYLIC ACID, DI-C6-10-ALKYL ESTERS	68515-51-5	20 - 30
CARBON BLACK	1333-86-4	15 - 25
KAOLIN, CALCINED	92704-41-1	5 - 15
TOLUENE	108-88-3	1 - 5
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,Xi, Xn; R:11-38-48/20-Repr.Cat.3;63-65-67)		
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	Less Than 3
EU Hazard Symbols and Risk Phrases: EU - Concawe report no. 01/54 (N,Xn; R:51/53-65-66)		
DIPHENYLMETHANE DIISOCYANATE	101-68-8	Less Than 0.2
EU Hazard Symbols and Risk Phrases: EU - Adaptation 28 (Xn,Xi; R:20-36-37-38-42-43)		
3-(TRIMETHOXSILYL)PROPYL GLYCIDYL ETHER	2530-83-8	Less Than 0.2
EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (Xi, N; R:36-38-51/53)		

3 HAZARDS IDENTIFICATION

Critical hazards:
Harmful. May cause sensitisation by inhalation.

4 FIRST-AID MEASURES

Eye Contact:
Flush eyes with large amounts of water. If signs/symptoms

persist, get medical attention.

Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Ingestion:

Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Hazardous Decomposition:

Oxides of Nitrogen, Hydrogen Cyanide, Isocyanates. Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Wear full protective equipment and a self-contained breathing apparatus.

Special Instructions:

Contact with aluminum or zinc in a pressurised system may generate hydrogen gas which could create an explosion hazard.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Methods for Cleaning up:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Contain spill. Avoid contact with water. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a suitable metal container. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Avoid contact with water to prevent potentially violent reaction or fire.

Incompatible Materials/Conditions:

Store away from acids. Store away from heat. Store out of direct sunlight. Keep away from aluminium and zinc. Store away from oxidising agents.

Ventilation:

Keep container in a well-ventilated area.

Precautions for Safe Handling:

For industrial or professional use only. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact with vapours, mists, or spray. Avoid eye contact with dust or airborne particles. The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields.

Hand Protection:

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid breathing of vapours created during the cure cycle. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Fullface air-purifying respirator with organic vapour cartridges and particulate prefilters. Fullface supplied-air respirator,

Ingestion:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Provide appropriate local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open containers. Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Do not use in a confined area or areas with little or no air movement. Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits:

CARBON BLACK (1333-86-4)

HSE WEL TWA: 3.5 mg/m³ OES

HSE WEL STEL: 7 mg/m³ OES

TOLUENE (108-88-3)

HSE WEL TWA: 50 ppm; 191 mg/m³ skin OES

HSE WEL STEL: 150 ppm; 574 mg/m³ skin OES
HYDROTREATED LIGHT PETROLEUM DISTILLATES (64742-47-8)
HSE WEL TWA: 300 ppm
CMRG TWA Exposure Limit: 300 ppm
DIPHENYLMETHANE DIISOCYANATE (101-68-8)
HSE WEL TWA: 0.02 mg/m³ sen MEL
HSE WEL STEL: 0.07 mg/m³ sen MEL
3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER (2530-83-8)
CMRG TWA Exposure Limit: 5 ppm

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Black, solid paste with light odour.

pH: Not applicable

Boiling point/boiling range: 110 C

Melting point/melting range: Not determined

Flash point: 21 -50 C

Autoflammability: 450 C

Vapour pressure: 29 mbar

Water Solubility: Negligible

Specific gravity: 1.2 @ 20 C

Vapour density: 3.14

Volatile organic compounds: Not determined

Evaporation rate: Not determined

Viscosity: Not determined

Percent Volatile: 3 %

10 STABILITY AND REACTIVITY

Conditions to Avoid:

Heat. Sparks and/or Flames. High Shear and High temperature conditions. Temperatures above the boiling point.

Materials to Avoid:

Amines. Alcohols. Water. Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure build-up. Aluminium or Magnesium powder and high shear/temperature conditions. Alkali and alkaline earth metals. Reactive Metals. Reducing agents. Strong acids. Strong oxidising agents.

Hazardous Decomposition:

Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

May be absorbed through skin and cause target organ effects.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects. Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Sensitisation Information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Reproductive Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Other Effects and Information:

Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate. Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the environment.

13 DISPOSAL CONSIDERATIONS

Product as Sold:

Cure (harden, set, or react) the product according to product instructions. Dispose of completely cured (or polymerised) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: Not restricted for transportation.

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number:

Class:

Packing Group:

Proper Shipping Name:

ADR/RID CLASSIFICATION:

Class:

ADR classification:

ICAO/IATA CLASSIFICATION:

Class:

Sub-Risk:

Packing Group:

Proper Shipping Name:

15 REGULATORY INFORMATION

Disclosable Ingredients:

DIPHENYLMETHANE DIISOCYANATE.

Symbol(s):

(Xn) St. Andrew's Cross (Harmful).

Risk Phrases:

(R42) May cause sensitisation by inhalation.

Safety Phrases:

Do not breathe vapour. Do not breathe dust. Use only in well ventilated areas. Avoid contact with the skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Contains isocyanates. See information supplied by manufacturer. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep out of the reach of children.

16 OTHER INFORMATION

Regulatory Information: The following UK Regulations as amended may affect the product as supplied: The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended. Carriage of Dangerous Goods by Road regulations, 1996, as amended. The Control of Substances Hazardous to Health Regulations 1999 as amended. The Special Waste Regulations 1996, as amended. The Environmental Protection Act, 1990 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.
Updated section 2.

Intended Use of Product:
This is a sealer designed for use in windscreen bonding.

The information on this Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.