

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: GML COATINGS EXTREME PART B
Common Name: Polyether polyol
SDS Number: GML COATINGS EXTREME PART B
Product Code: 12196 1279-B-12196
Revision Date: 5/27/2015
Version: 3
Internal ID: 1279-B-12196
Product Use: 2 part polymeric elastomers for industrial and commercial applications.
Supplier Details: GML COATINGS
10315 TECHNOLOGY TERR.
BRADENTON, FL 34211

Emergency: CHEMTREC 800-262-8200 (24 HOUR SERVICE)
Phone: 941-755-2176
Fax: 941-755-2428

Web: WWW.GMLCOATINGS.COM

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Dermal
Health, Acute toxicity, 5 Oral
Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H313 - May be harmful in contact with skin
H303 - May be harmful if swallowed
H319 - Causes serious eye irritation

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash thoroughly after handling.
P304+312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P404 - Store in a closed container.

Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry: _____ Inhalation: Skin: Eyes:

Target Organs: Eyes; Respiratory system; Skin;

Inhalation: Due to the low vapor pressure of the major components used in this product, it is unlikely that inhalation exposure will occur when handling this product under normal working conditions and at room temperature. However, during heating, spray application or processing of this product, it is possible that an exposure could occur. This product as a whole may then be expected to cause irritation of the upper respiratory tract and mucous membranes of the mouth, nose and throat. Symptoms may include coughing, headache, nausea, vomiting, and chest pain. This product contains an aromatic diamine, diethyltoluenediamine, inhalation exposure can cause methemoglobinemia with symptoms of cyanosis, a purplish-blue color of the skin, fingernails and lips.

Skin Contact: Upon contact, irritation and defatting of the skin are possible. The hindered amine and aliphatic amine components are considered to be fairly strong skin sensitizers and may cause an allergic skin reaction. The diethyltoluenediamine (DETA) component of this product is fat-soluble and can penetrate the skin. Based on animal tests, DETA is expected to be toxic. Skin contact and skin absorption of DETA can cause methemoglobinemia with symptoms of cyanosis, a purplish-blue color of the skin, fingernails and lips. Contact can cause irritation with redness, and severe swelling and blistering.

Eye Contact: This product as a whole can cause severe irritation to the eyes. Diethyltoluenediamine (DETA) is considered severely irritating and corrosive to the eyes. The vapors have also been reported to cause transient fogging of the eyes as a result of corneal edema.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
68479-98-1	<20%	Benzenediamine, ar,ar-diethyl-ar-methyl-
9082-00-2	<80%	Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)
9003-11-6	<80%	oxirane, methyl-, polymer with oxirane

4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult or bluish discoloration of ear lobes, lips or fingernails is visible, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Skin Contact: Remove all contaminated clothing and shoes immediately. Wash affected areas, including hair, beneath nails and other concealed areas with Polyethylene Glycol 400. Repeat washing with soap and water. If polyethylene Glycol 400 is not available, wash immediately with soap and plenty of cold water. DO NOT use hot water. Get medical attention immediately. Thoroughly clean clothing and shoes before reuse.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Use fingers to insure that eyelids are separated and that the eye is being irrigated. Get medical attention immediately.

Ingestion: Ingestion is not likely route of exposure, but if ingested, consult a physician. Give two glasses of water for dilution. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Should vomiting occur, keep head below hip level to prevent aspiration of fluid into the lungs.

5 FIRE FIGHTING MEASURES

Flash Point: 342 °F (172.2 °C)
Flash Point Method: Pensky-Martens Closed Cup (ASTM D-93)
Autoignition Temp: Not established

Extinguishing media: Water; Carbon Dioxide; Dry Chemical; Foam:
 Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Material supports combustion. During a fire, irritating and toxic gases such as carbon monoxide may be generated by thermal decomposition or combustion. DO NOT spray fire directly. A solid stream of water directed into the hot burning liquid could cause frothing.

6 ACCIDENTAL RELEASE MEASURES

Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear self-contained breathing apparatus and protective clothing. If material is released or spilled, dam up to prevent spreading and contamination of surface waters, ground waters and drinking supplies. Notify local health authorities and other appropriate agencies if such contamination should occur. Spilled material should be contained and pumped into steel containers for recovery or disposal. Vermiculite absorbent should be spread over the spill area to absorb as much of the remaining product as possible. Scoop up solid absorbent for waste disposal. Ventilate area to remove the remaining vapors.

7**HANDLING AND STORAGE**

Handling Precautions: Container should be tightly closed to prevent contamination with foreign materials and moisture. Avoid skin and eye contact. Avoid breathing vapors if generated.

Storage Requirements: Shelf life: 6 months. Container should be tightly closed to prevent contamination with foreign materials and moisture. If contamination with isocyanates is suspected, do not reseal containers.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Safety showers and eyewash stations should be easily accessible to the work area. Local exhaust ventilation is mandatory when working with this product.

Personal Protective Equipment: HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) (9082-00-2) : no data available



SDS

GML COATINGS EXTREME PART B

Oxirane, methyl-, polymer with oxirane (9003-11-6) : no data available

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pigmented liquid	Odor:	amine-type odor
Physical State:	liquid	Solubility:	partially soluble in water
Odor Threshold:	No data available	Freezing/Melting Pt.:	Not established
Spec Grav./Density:	1.0279 @ 77°F (25°C)	Flash Point:	342.0°F (172.2°C)
Viscosity:	No data available	Vapor Density:	Not established
Boiling Point:	Not established	Auto-Ignition Temp:	No data available
Partition Coefficient:	No data available	UFL/LFL:	No data available
Vapor Pressure:	Not established		
pH:	No data available		
Evap. Rate:	No data available		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Chemical Stability:	This is a stable material under normal conditions.
Conditions to Avoid:	Avoid high temps, sparks and flames.
Materials to Avoid:	Oxidizing materials, halogens, isocyanates, and acids.
Hazardous Decomposition:	In fire: CO, CO ₂ , oxides of nitrogen, amines, and other aliphatic fragments which have not been determined.
Hazardous Polymerization:	Will not occur

11 TOXICOLOGICAL INFORMATION

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) (9082-00-2)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - > 10,000 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 5,000 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: TQ8170000

Oxirane, methyl-, polymer with oxirane (9003-11-6)

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 9,380 mg/kg

LD50 Oral - mouse - 15,000 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - 20,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation: - rabbit Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: MD0911050

Effects due to ingestion may include:, Diarrhea, Weakness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12**ECOLOGICAL INFORMATION**

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) (9082-00-2)

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Oxirane, methyl-, polymer with oxirane (9003-11-6)

Information on ecological effects

Toxicity:

Toxicity to fish static test LC50 - other fish - > 10,000 mg/l - 96 h.
(OECD Test Guideline 203)

Persistence and degradability: no data available

Bioaccumulative potential: Bioaccumulation is unlikely.

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13**DISPOSAL CONSIDERATIONS**

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or

otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information. If incinerated, toxic and corrosive combustion gases must be properly handled.

14 TRANSPORT INFORMATION

Non DOT/RCRA regulated

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Benzenediamine, ar,ar-diethyl-ar-methyl- (68479-98-1) TSCA

Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) (9082-00-2) TSCA

Oxirane, methyl-, polymer with oxirane (9003-11-6) TSCA

Regulatory CODE Descriptions

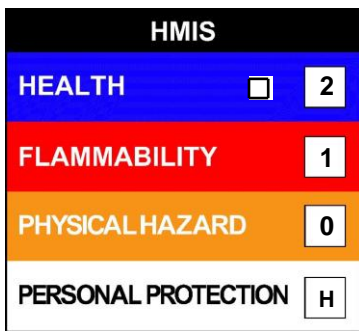
TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

NFPA: Health = 2, Fire = 1, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2, Fire = 1, Physical Hazard = 0

HMIS PPE: H - Splash Goggles, Gloves, Apron, Vapor Respirator



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