

# **SAFETY DATA SHEET**

# **SECTION 1 - Identification**

#### 1.1 Product Identifier

Product Name

• CARPOL® MX-470 Polyol
Synonyms

• Polyether Polyol Blend

## 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use • Component of Polyurethane

Restrictions on Use • Industrial Use Only

# 1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer • Carpenter Co.

5016 Monument Ave. Richmond, Virginia 23230

(804) 233-0606

1.4 Emergency Telephone

Chemtrec • (800) 424-9300 (24-hr number)

# **SECTION 2 - Hazards Identification**

#### 2.1 Classification of the Substance or Mixture

Classification in accordance with 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS (5<sup>th</sup> Edition):

Acute Toxicity Oral Category 4 – H302 Skin Irritation Category 2 – H315 Eye Irritation Category 1 – H318

## 2.2 GHS Label Elements

Hazard Pictogram



Signal Word DANGER

Hazard Statements

H302 – Harmful if swallowed.

H315 – Causes skin irritation.

H318 – Causes serious eye damage

**Precautionary Statements** 

**Prevention** P280 – Wear eye protection and protective gloves

P264 – Wash thoroughly after handling. P273 - Avoid release to the environment.

P270 - Do not eat, drink or smoke when using this

product.

**Response** P305+P351+P338+P310 - IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately

call a physician.

P302+P352 + P332 + P313 - IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs:

Get medical advice.

P362+P364 – Take off contaminated clothing and wash

it before reuse.

P301+P312+P330 - IF SWALLOWED: Rinse mouth. Call

a physician if you feel unwell.

**Storage/Disposal** P501 - Dispose of content and/or container in

accordance with local, regional, national, and/or

international regulations.

#### 2.3 Hazards Not Otherwise Classified

May cause gastrointestinal discomfort.

• Refer to Section 16 Other Information for relevant EU CLP phrases.

# **SECTION 3 - Composition/Information on Ingredients**

#### 3.1 Substance

Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### 3.2 Mixtures

Name	Identifier	% (weight)
Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis-(2-hydroxyethyl)amino]methyl]-4-branched nonylphenol	CAS# 940912-28-7	90-100
Ethanol, 2,2'-iminobis-, polymer with 2-methyloxirane and oxirane	CAS# 34354-45-5	<10

## **SECTION 4 - First Aid Measures**

#### 4.1 Description of First Aid Measures

By route of inhalation • Remove victim to fresh air.

By route of dermal contact

• Remove contaminated clothing and shoes. Wash

thoroughly with soap and water. Seek medical attention

if irritation develops.

By route of eye contact • Flush with plenty of water for 30 minutes. Seek medical

attention.

By route of ingestion • If victim is conscious, give 1 to 2 glasses of water for

dilution. Do not induce vomiting unless directed to do

so by medical personnel.

## 4.2 Most Important Symptoms and Effects, Acute and Chronic

Refer to Section 11 Toxicological Information.

#### 4.3 Indication of Immediate Medical Attention and Special Treatment If Needed

Treat symptomatically and supportively.

# **SECTION 5 - Firefighting Measures**

## 5.1 Extinguishing Media

Non-Emergency Personnel

Suitable Extinguishing Media • Dry chemical, foam, carbon dioxide, water fog or fine

spray.

Unsuitable Extinguishing Media • Do not use direct water spray. May spread fire.

#### 5.2 Special Hazards Arising From the Substance or Mixture

 May produce oxides of carbon and nitrogen, and have traces of aldehydes, ketones, and organic acids on combustion.

#### 5.3 Special Protective Actions for Firefighters

 Responding personnel must wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing.

## **SECTION 6 - Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment, and Emergency Procedures

 Avoid any skin contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ensure adequate ventilation to remove vapors, fumes, dust etc. Ventilate enclosed

areas.

For Emergency Responders

• Eliminate all ignition sources (no smoking, flares,

sparks or flames in immediate area) Keep unauthorized

personnel away. Stay upwind. Stop leak if you

can do it without risk.

#### **6.2 Environmental Precautions**

• Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

#### 6.3 Methods and Materials for Containment and Clean Up

Methods

- Stop leak, dam spill, and transfer liquid into a suitable container.
- Collect residue with absorbent and transfer into a suitable container for proper disposal.

Materials

• For large spills, responding personnel must use supplied-air positive pressure breathing apparatus.

#### 6.4 Reference to Other Sections

- Refer to Section 8 for exposure control and personal protective equipment information.
- Refer to Section 12 for ecological information.

# **SECTION 7: Handling and Storage**

#### 7.1 Precautions for Safe Handling

- Keep containers tightly closed when not in use.
- Do not eat, drink, or smoke in working area.
- · Avoid contact with skin and clothing.
- Avoid contact with eyes.
- · Use good safety and industrial hygiene practices.

# 7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage

 Store materials in a cool, dry place. Do not transport with oxidizers.

Incompatibilities

•Oxidizing materials, acids, and Isocyanates.

# **SECTION 8: Exposure Controls/ Personal Protection**

## 8.1 Control Parameters

Exposure Limits/Guidelines

	OSHA PEL(ppm)	ACGIH TLV (ppm)
	0.75 TWA	
Formaldehyde	2 STEL	0.3 Ceiling

#### **8.2 Exposure Controls**

**Engineering Controls** 

 Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Eye/Face Protection • Chemical goggles. Face shield with chemical goggles if

there is a possibility of splashing.

Respiratory Protection • None required under normal use. If product is heated

or sprayed, appropriate respiratory protection may be

needed.

Skin Protection • Wear suitable working clothes and shoes.

• Wear chemical resistant gloves appropriate for the intended use. Consult glove manufacturers for assistance in choosing appropriate gloves.

Environmental Exposure Controls • No data available.

Additional Protection Measures 
• Use near eyewash station and safety shower.

# **SECTION 9: Physical and Chemical Properties**

## 9.1 Information on Physical and Chemical Properties

Material Description					
Physical Form	<ul> <li>Viscous liquid</li> </ul>	Odor	<ul> <li>Slight odor</li> </ul>		
Appearance /Color	Amber	Odor Threshold	<ul> <li>No data available</li> </ul>		
General Properties					
Boiling Point	<ul> <li>No data available</li> </ul>	Melting Point	<ul> <li>No data available</li> </ul>		
Decomposition Temperature	No data available	рН	No data available		
Density (at 25°C)	<ul> <li>No data available</li> </ul>	Water Solubility	• Low		
Solvent Solubility	<ul> <li>No data available</li> </ul>	Viscosity (at 25°C)	<ul> <li>No data available</li> </ul>		
Explosive Properties	No data available	Specific Gravity/Relative Density	• 1.06 (H <sub>2</sub> O=1)		
Volatility					
Vapor Pressure	<ul> <li>No data available</li> </ul>	Vapor Density	<ul> <li>No data available</li> </ul>		
Evaporation Rate	<ul> <li>No data available</li> </ul>	VOC (Vol.)	<ul> <li>No data available</li> </ul>		
Volatiles (Vol.)	<ul> <li>No data available</li> </ul>				
Flammability					
Flash Point	• >200°F (PMCC)	LEL	<ul> <li>No data available</li> </ul>		
UEL	<ul> <li>No data available</li> </ul>	Flammability (solid, gas)	<ul> <li>No data available</li> </ul>		
Auto-ignition Temperature	<ul> <li>No data available</li> </ul>				
Environmental					
Octanol/Water Partition Coefficient	No data available				

#### 9.2. Other Information

No additional information available

# **SECTION 10: Stability and Reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical Stability

Stable under normal temperatures and pressures.

## 10.3 Possibility of Hazardous Reactions

No data available.

#### 10.4 Conditions to Avoid

Elevated temperatures.

#### 10.5 Incompatible Materials

Oxidizing materials, strong acids, and isocyanates.

## 10.6 Hazardous Decomposition Products

No data available.

# **SECTION 11: Toxicological Information**

## 11.1 Information on Toxicological Effects

## Acute Toxicity (based on similar materials)

ChemicalLD50 oral ratLD50 dermal rabbitLC50 inhalation ratAmine Polyol1,370 mg/kg12,800 mg/kgNot data available

#### Skin Corrosion/Irritation

Skin Irritation Category 2: Causes skin irritation

## Serious Eye Damage/Irritation

Eye Irritation Category 1: Causes serious eye damage

#### Respiratory or Skin Sensitization

· No data available

## **Germ Cell Mutagenicity**

· No data available

#### Carcinogenicity

Formaldehyde NTP – Known to be a human carcinogen

IARC – Carcinogenic to humans OSHA – Regulated as a carcinogen

Diethanolamine IARC – Possibly carcinogenic to humans

## **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

#### 11.2 Potential Health Effects

Inhalation

Acute
 Not expected to be a hazard due to low vapor pressure.

Chronic • None known.

Skin

Acute • Prolonged contact may cause severe irritation.

Chronic • None known.

Eye

Acute • May cause severe irritation with corneal injury which may result

in permanent impairment of vision.

Chronic • None known.

Ingestion

Acute • Small amounts swallowed may cause gastrointestinal

discomfort.

Chronic • None known.

# **SECTION 12: Ecological Information**

## 12.1 Ecotoxicity

Toxic to aquatic organisms.

## 12.2 Persistence and Degradability

No data available

#### 12.3 Bioaccumulative Potential

No data available

## 12.4 Mobility in Soil

No data available

## 12.5 Other Adverse Effects

No data available

# **SECTION 13: Disposal Considerations**

## 13.1 Waste Disposal Method

## **Product Waste**

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

## Packaging Waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## **SECTION 14: Transport Information**

#### U.S. DOT

Not regulated as hazardous for shipment.

# **SECTION 15: Regulatory Information**

#### 15.1 Regulatory Status

CERCLA Hazardous Substances (40 CFR 302): None reportable.

SARA 311/312: Acute health hazard.

#### **SARA 313:**

Formaldehyde CAS# 50-00-0 Diethanolamine CAS# 111-42-2

## 15.2 US State Regulations

STATE RIGHT-TO-KNOW: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6). [Diethanolamine, Formaldehyde]

## 15.3 Canadian Regulations

**DSL:** All components of this product are listed on, or exempt from the DSL.

WHMIS: Class D2B (skin or eye irritation).

#### 15.4 International Inventories\*

**United States:** All components of this product are listed on the TSCA inventory. **Japan:** All components of this product are listed on the ENCS.

## **SECTION 16: Other Information**

#### **16.1 HMIS AND NFPA RATINGS**

HMIS Classification
Health: 3
Flammability: 1
Reactivity: 0
Health: 3
Flammability: 1
Instability: 0
Special: None

## 16.2 EU CLP Relevant Phrases

<sup>\*=</sup>Although a chemical may be listed on a country's inventory, it may not indicate a hazard or regulatory control for use.

S24/25 - Avoid contact with skin and eyes.

S56 - Dispose of this material and its container to hazardous or special waste collection point.

S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

S3/9/49 - Keep only in the original container in a cool, well ventilated place.

## 16.3 Preparation By

I.H. Department

## 16.4 Preparation Date

September 4, 2013

#### 16.5 Last Revision Date

March 4, 2015

## 16.6 Disclaimer/Statement of Liability

The data in this Safety Data Sheet is offered for your consideration, investigation and verification. The data is presented in good faith and was obtained from sources Carpenter believes to be reliable. Carpenter, however, makes no representation as to the completeness or accuracy. Carpenter makes no warranty, express or implied, with respect to the data contained herein. Carpenter cannot anticipate all conditions under which this data and the product may be used. The conditions of handling, storage, use, and disposal of the product are beyond Carpenter's control. Thus, we expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information contained herein. You are advised to make your own determination as to safety, suitability and appropriate manner of handling, storage, use and disposal.