Material Safety Data Sheet

Section I. GENERAL INFORMATION

Product Name: Carpol MX470
Description: Polyether Polyol
Manufacturer's Name: Carpenter Co.-Chemicals Division
5016 Monument Avenue
Richmond, Virginia 23230
Information Telephone: Carpenter Co.-Chemicals Division (804) 233-0606
Emergency Telephone: Chemtrec (800) 424-9300
Preparation Date: January 5, 2001

Section II. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits in Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane, methyl-, polymer with oxirane, ether with 2,6-bis[(bis(2-hydroxyethyl)amino)methyl]-4-nonylphenol (5:1)</td>
<td>OSHA(PEL)</td>
</tr>
<tr>
<td></td>
<td>Not Est.</td>
</tr>
</tbody>
</table>

Section III. PHYSICAL CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°F)</td>
<td>N.Av.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>~1.1</td>
</tr>
<tr>
<td>(H₂O=1)</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Negligible</td>
</tr>
<tr>
<td>Melting Point (°F)</td>
<td>N.Av.</td>
</tr>
<tr>
<td>Evaporation Rate (air=1)</td>
<td>N.Av.</td>
</tr>
</tbody>
</table>

Solubility in H₂O: Low.
Appearance and Odor: Viscous amber liquid, slight odor.

Section IV. FIRE AND EXPLOSION DATA

Flash Point (°F): 500 (PMCC)  LEL: Not Deter.  UEL: Not Deter.
Extinguishing Media: Foam, water spray, dry chemical, CO₂.
Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus and protective clothing.
Unusual Fire or Explosion Hazards: None known.

Section V. REACTIVITY DATA

Stability: Stable.
Conditions to Avoid: High temperatures.
Incompatibility: Strong oxidizers; isocyanates.
Hazardous Decomposition Products: Oxides of carbon and nitrogen.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None.

Section VI. HEALTH HAZARD DATA

Primary Routes of Entry: Skin and eye contact, ingestion; inhalation.

Acute Health Hazards:

Ingestion: May cause irritation of the gastrointestinal tract.

Inhalation: At elevated temperatures, vapor may cause irritation of the respiratory tract.

Eye Contact: Can cause severe burns.

Skin Contact: Can cause irritation.

Chronic Health Hazards: None known.

Carcinogenicity: OSHA: No NTP: No IARC: No

Symptoms of Overexposure: None known.

Medical Conditions Aggravated by Exposure: None known.

First Aid Procedures:

Ingestion: Get immediate medical attention.

Inhalation: Remove to fresh air. Assist in breathing if required. Get medical attention.

Skin Contact: Wash thoroughly with soap and water. Get medical attention.

Eye Contact: Rinse eyes with running water for at least 15 minutes. Get immediate medical attention.

Section VII. H.M.I.S. RATING

Health 3
Flammability 1
Reactivity 0
Personal Protection -

Section VIII. PRECAUTIONS FOR HANDLING AND USE

Steps to Be Taken in Case Material is spilled: Stop leak, dam spill, and collect liquid in a suitable container. Absorb residue with vermiculite or other inert material, then transfer to a suitable container for proper disposal. Prevent from entering drains, sewers, or streams.

Waste Disposal Method: Dispose of in accordance with local, state, and Federal regulations.

Handling/Storage: Store in cool dry area. Keep container closed to maintain product quality.
Other Precautions: None.

Section IX. CONTROL MEASURES

Respiratory Protection: If adequate engineering controls are not feasible, an approved respirator must be worn (type: mist, organic vapor).

Ventilation: Good general ventilation (typically 10 air changes per hour).

Skin Protection: Chemical-resistant gloves.

Eye Protection: Chemical goggles.

Other Protection: Eye bath and safety shower.

Work/Hygiene Practices: Wash thoroughly after using.

Section X. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The ingredients of this product are listed on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 311/312 - Reportable Materials:

Oxirane, methyl-, polymer with oxirane, ether with 2,6-bis[(bis(2-hydroxyethyl)amino)methyl]-4-nonylphenol (5:1) - An immediate health hazard.

Section 313 - Supplier Notification:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 (40 CFR 372):

<table>
<thead>
<tr>
<th>CAS #</th>
<th>CHEMICAL NAME</th>
<th>PERCENT BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
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</tbody>
</table>

This information must be included in all MSDS's that are copied and distributed for this material.

STATE RIGHT-TO-KNOW

CALIFORNIA PROPOSITION 65 INFORMATION:

This product contains detectable amounts of a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm. (California Health and Safety Code Section 25249.6).
The data in this Material 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.

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