Material Safety Data Sheet

5-MINUTE EPOXY HARDENER

This product appears in the following stock number(s):
14200 14210 14250 14270 14630 DA005 DA007 DA009
DA043 DA049 DA050 DC002 DC010 DC014 DC040

Last revised: 02/19/98
Printed: 10/17/96

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trademark: 5-MINUTE EPOXY HARDENER

General use: The following information applies to the hardener component of the two-part kit and to freshly mixed resin and hardener. After curing, 5-Minute Epoxy is not hazardous.

Chemical family: Polymercaptan/polyamine mixture

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS CONSTITUENTS

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Abbr.</th>
<th>CAS No.</th>
<th>Weight percent</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>DMP</td>
<td>90722</td>
<td>10-20</td>
<td>n/e</td>
<td>n/e</td>
<td>n/e</td>
</tr>
<tr>
<td>Mercaptan amine blend</td>
<td></td>
<td></td>
<td>80-90</td>
<td>n/e</td>
<td>n/e</td>
<td>n/e</td>
</tr>
</tbody>
</table>

"TLV" means the Threshold Limit Value exposure (eight-hour time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Viscous, amber liquid with Mercaptan odor.

WARNING! Severe eye, skin and respiratory tract irritant (evidenced by itching, redness, burning sensation). Potential skin sensitizer. Overexposure may cause delayed lung effects. Avoid breathing vapors. Use with adequate ventilation. Do not take internally. Wash thoroughly after handling.

Potential health effects:

Primary routes of exposure: ☑ Skin contact ☑ Skin absorption ☑ Eye contact ☐ Inhalation ☑ Ingestion

Symptoms of acute overexposure:

Skin: Can cause severe irritation, especially on prolonged contact. Potential sensitizer.
Eyes: Causes severe irritation with possible permanent damage and even blindness.
Inhalation:
Considered slightly toxic. Can cause irritation of respiratory tract. Over exposure to fumes or vapors may cause delayed lung injury and chemical pneumonia.

Ingestion:
Slightly toxic. May cause fatigue, muscle weakness, gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects of chronic overexposure:
Prolonged or severe overexposure to DMP vapor can cause delayed lung damage and chemical pneumonia. Prolonged or repeated contact with this material may cause skin sensitization.

Carcinogenicity — OSHA regulated: No ACGIH: No National Toxicology Program: No International Agency for Research on Cancer: No Cancer-suspect constituent(s): None

Medical conditions which may be aggravated by exposure:
May aggravate existing skin, eye, and lung conditions.

4. FIRST AID MEASURES
First aid for eyes:
Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

First aid for skin:
Remove contaminated clothing and shoes. Wash thoroughly with soap and warm water. Consult a physician if irritation develops.

First aid for inhalation:
Remove patient to fresh air. Provide oxygen if breathing is difficult. Consult a physician if symptoms persist.

First aid for ingestion:
Do not induce vomiting. Give large amounts of water followed by milk if available. Consult a physician.

5. FIRE FIGHTING MEASURES
Extinguishing media:
× Water × Carbon dioxide × Dry chemical × Foam □ Alcohol foam

Flash Point (°F): >200 Method: PMCC
Explosive limits in air (percent) — Lower: n/d Upper: n/d

Special firefighting procedures:
Firefighters should wear self-contained breathing apparatus and protective clothing in confined areas. Cool containers with water spray

Unusual fire and explosion hazards:
Toxic smoke and vapors may form during combustion.

Hazardous products of combustion:
Oxides of carbon, oxides of sulfur, oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES
Spill control:
Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment:
Dike, contain and absorb with clay, sand or other suitable material.
7. HANDLING AND STORAGE

Handling precautions:
- Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.
- Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles.
- Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against nuisance dust during sanding/grinding of cured product.

Storage:
- Store in a cool, dry area away from high temperatures and flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation:
- General mechanical ventilation is adequate for occasional use. For prolonged or repeated use, local exhaust is recommended.

Other engineering controls:
- Have emergency shower and eye wash stations available.

Personal protective equipment

Eye and face protection:
- Safety glasses with sideshields or chemical goggles.

Skin protection:
- Chemical-resistant rubber (for example, neoprene, butyl rubber or nitrile) gloves and other protective gear as needed to prevent skin contact.

Respiratory protection:
- None needed in normal use with proper ventilation. In poorly ventilated areas or when creating a dust or mist, use NIOSH-approved organic vapor respirator.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>1.13</td>
</tr>
<tr>
<td>Melting point (°F)</td>
<td>n/d</td>
</tr>
<tr>
<td>Vapor pressure (mmHg)</td>
<td>&lt;&lt;1 at 70 °F</td>
</tr>
<tr>
<td>VOC (grams/liter)</td>
<td>0</td>
</tr>
<tr>
<td>Percent volatile by volume</td>
<td>0</td>
</tr>
<tr>
<td>Percent solids by weight</td>
<td>100</td>
</tr>
<tr>
<td>Boiling point (°F)</td>
<td>n/d</td>
</tr>
<tr>
<td>Vapor density (air = 1)</td>
<td>n/d</td>
</tr>
<tr>
<td>Evaporation rate (butyl acetate = 1)</td>
<td>n/d</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Negligible</td>
</tr>
<tr>
<td>pH (5% solution or slurry in water)</td>
<td>9.5</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to avoid:
- Open flame and extreme heat.

Incompatible materials:
- Strong oxidizing agents.

Hazardous products of decomposition:
- Oxides of carbon, oxides of sulfur, oxides of nitrogen.

Conditions under which hazardous polymerization may occur:
- When this hardener is mixed with an epoxy resin heat is generated; be careful when mixing more than an ounce or so.

11. TOXICOLOGICAL INFORMATION

Acute oral effects: LD50 (rat): DMP: 1200 mg/kg
- No data.

Acute dermal effects: LD50 (rabbit): DMP: 1350 mg/kg
- Rabbit: Severe irritant; LD50 (rabbit): 1280 mg/kg (DMP)

Acute inhalation effects: LC50 (rat): DMP: >0.5 mg/liter
- No data.

Eye irritation:
- Rabbit: Severe irritant.

Subchronic effects:
- No data.

Carcinogenicity, teratogenicity, and mutagenicity:
- No data.

Other chronic effects:
- No data.

Toxicological information on hazardous chemical constituents of this product:
### Material Safety Data Sheet

**Part No.: 1521**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Oral LD50 (rat)</th>
<th>Dermal LD50 (rabbit)</th>
<th>Inhalation LC50 4hr. (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>1200 mg/kg</td>
<td>1350 mg/kg</td>
<td>&gt; 0.5 mg/L</td>
</tr>
<tr>
<td>Mercaptan amine blend</td>
<td>n/d</td>
<td>n/d</td>
<td>n/d</td>
</tr>
</tbody>
</table>

*n/d = not determined*

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
- No data.

**Mobility and persistence:**
- No data.

**Environmental fate:**
- No data.

### 13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

**Waste management recommendations:**
- If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

### 14. TRANSPORT INFORMATION

- **Proper shipping name:** Non-Regulated Material
- **Technical name:**
- **Hazard class:** None
- **UN number:**
- **Packing group:**
- **Emergency Response Guide no.:**
- **IMDG page number:**
- **Other:**

### 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

- **TSCA**
  - All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.
  - The following RCRA code(s) applies to this material if it becomes waste:
    - None

  **Regulatory status of hazardous chemical constituents of this product:**
Constituent | Extremely Hazardous* | Toxic Chemical** | CERCLA RQ (lbs) | TSCA 12B Export Notification
--- | --- | --- | --- | ---
2,4,6-Tr(dimethylaminomethyl)phenol | No | No | None | Not required
Mercaptan amine blend | No | No | None | Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: - Immediate health hazard – Delayed health hazard -

**Canadian regulations**

WHMIS hazard class(es) : D2B

All components of this product are on the Domestic Substances List.

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazardous Materials Information System (HMIS) ratings:</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3*</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

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