1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE HEAVY DUTY EPOXY HARDENER
IDH number: 1440606
Product type: Epoxy Hardener
Item number: 1395310_1295955
Restriction of Use: None identified
Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067
Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
SUSPECTED OF CAUSING GENETIC DEFECTS.
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS

<table>
<thead>
<tr>
<th>SKIN CORROSION</th>
<th>SERIOUS EYE DAMAGE</th>
<th>SKIN SENSITIZATION</th>
<th>GERM CELL MUTAGENICITY</th>
<th>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</th>
</tr>
</thead>
<tbody>
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<td>2</td>
</tr>
</tbody>
</table>

PICTOGRAM(S)

Precautionary Statements

**Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

**Response:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>CAS Number</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopyl, m-Phenylenebis(methylamine)</td>
<td>72244-98-5</td>
<td>70 - 80</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>90-72-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Phenol</td>
<td>108-95-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propylamine</td>
<td>13822-56-5</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Bis(dimethyldisiloxanato)methylphenol</td>
<td>71074-89-0</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Symptoms:** See Section 11.

**Notes to physician:** Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.
Clean-up methods: Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 “Exposure Controls / Personal Protection” prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Store in original container until ready to use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptop</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>m-Phenylenebis(methylamine)</td>
<td>0.1 mg/m3 Ceiling (SKIN)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Phenol</td>
<td>5 ppm TWA (SKIN)</td>
<td>5 ppm</td>
<td>(19 mg/m3) PEL (SKIN)</td>
<td>None</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propylamine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Bis[(dimethylamino)methyl]phenol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state:                                   | Liquid   |
| Color:                                            | Amber, Translucent |
| Odor:                                             | Amine, Mercaptan |
| Odor threshold:                                   | Not available. |
| pH:                                               | Not available. |
| Vapor pressure:                                   | Not available. |
| Boiling point/range:                              | Not available. |
| Melting point/range:                              | Not available. |
| Specific gravity:                                 | 1.04     |
| Vapor density:                                    | Not available. |
| Flash point:                                      | > 93 °C (> 199.4 °F) Tagliabue closed cup |
| Flammable/Explosive limits - lower:               | Not available. |
| Flammable/Explosive limits - upper:               | Not available. |
Autoignition temperature: Not available.
Flammability: Not applicable
Evaporation rate: Not available.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 3.77%: 0.38g/l EPA Method 24
Viscosity: Not available.
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: None under normal processing.
Reactivity: Not available.
Conditions to avoid: Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion
Potential Health Effects/Symptoms

**Inhalation:** Mists, vapors or liquid may cause severe irritation or burns. Dizziness.

**Skin contact:** Causes skin burns. May cause allergic skin reaction.

**Eye contact:** Causes serious eye damage. Corneal edema may give appearance of "blue haze" or "fog" around lights.

**Ingestion:** If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach.

### Hazardous Component(s)

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl), a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptop</td>
<td>None</td>
<td>No Records</td>
</tr>
<tr>
<td>m-Phenylenebis(methylamine)</td>
<td>None</td>
<td>Irritant, Liver, Kidney, Corrosive</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Phenol</td>
<td>Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rabbit) = 850 mg/kg Dermal LD50 (Rat) = 669 mg/kg</td>
<td>Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propylamine</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Bis(dimethylamino)methyl)phenol</td>
<td>None</td>
<td>No Records</td>
</tr>
</tbody>
</table>

### Hazardous Component(s) - NTP Carcinogen, IARC Carcinogen, OSHA Carcinogen (Specifically Regulated)

<table>
<thead>
<tr>
<th>Compound</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl), a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptop</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>m-Phenylenebis(methylamine)</td>
<td>No</td>
<td>No</td>
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<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>No</td>
<td>No</td>
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<td>No</td>
</tr>
<tr>
<td>Bis(dimethylamino)methyl)phenol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.
13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)
Proper shipping name: Amines, liquid, corrosive, n.o.s. (m-Xylylenediamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II
DOT Hazardous Substance(s): Phenol

International Air Transportation (ICAO/IATA)
Proper shipping name: Amines, liquid, corrosive, n.o.s. (m-Xylylenediamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis
CERCLA/SARA Section 302 EHS: Phenol (CAS# 108-95-2).
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Phenol (CAS# 108-95-2).
CERCLA Reportable quantity: Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg)
California Proposition 65: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

Issue date: 10/05/2018

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