1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>LOC 25ML EPXY GEL SYRNG PTB</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDH number:</td>
<td>1436011</td>
</tr>
<tr>
<td>Product type:</td>
<td>Epoxy Hardener</td>
</tr>
<tr>
<td>Item number:</td>
<td>1405602_1295956</td>
</tr>
<tr>
<td>Region:</td>
<td>United States</td>
</tr>
</tbody>
</table>

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.

HAZARD CLASS

<table>
<thead>
<tr>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CORROSION</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
</tr>
</tbody>
</table>

PICTOGRAM(S)

Precautionary Statements

Prevention: Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, 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 person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. 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

IDH number: 1436011
Product name: LOC 25ML EPXY GEL SYRNG PTB
**Hazardous Component(s)** | **CAS Number** | **Percentage**
--- | --- | ---
Polymercaptan hardener | Proprietary | 60 - 100
m-Phenylenediamine (methylene diamine) | 1477-55-0 | 10 - 30
Substituted aminophenol | Proprietary | 1 - 5
Phenol | 108-95-2 | 1 - 5
Substituted aminophenol | Proprietary | 0.1 - 1
Reactive Silane | Proprietary | 0.1 - 1

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

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**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:** Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Get medical attention.

**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. Get medical attention.

**Symptoms:** See Section 11.

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

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**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:** Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind should be evacuated. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Irritating vapors.

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**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:** Ventilate area. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.

**Clean-up methods:** Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.
7. HANDLING AND STORAGE

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

Storage: Store in original container until ready to use. Keep away from heat, spark and flame. Protect from direct sunlight.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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>Polymercaptan hardener</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>m-Phenylenedibenzylamine</td>
<td>0.1 mg/m^3 Ceiling (SKIN)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Substituted aminophenol</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 (19 mg/m^3) PEL (SKIN)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Substituted aminophenol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Reactive Silane</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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.

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, gel
Color: Translucent, Amber
Odor: Mercaptan
Odor threshold: Not available.
pH: Not available.
Vapor pressure: Not available.
Boiling point/range: Not available.
Melting point/ range: Not available.
Specific gravity: 1.4
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.
Evaporation rate: Not available.
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 0.11 %; 1.13 g/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: Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: Respiratory tract burns. May cause respiratory tract irritation. May cause irritation to nose and throat. May cause central nervous system effects with nausea, dizziness and headache.
Skin contact: May cause skin burns. May cause allergic skin reaction. May be harmful if absorbed through skin. May cause central nervous system effects. Headache, nausea, dizziness, confusion, breathing difficulties
Eye contact: Burns. Severe eye irritation. 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. May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymercaptan hardener</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>Substituted aminophenol</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Phenol</td>
<td>Oral LD50 (RAT) = 317 mg/kg</td>
<td>Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (RAT) = 530 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal LD50 (RAT) = 669 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal LD50 (RABBIT) = 850 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Substituted aminophenol</td>
<td>None</td>
<td>No Records</td>
</tr>
<tr>
<td>Reactive Silane</td>
<td>None</td>
<td>Irritant, Allergen</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. (Aliphatic amines)
- Hazard class or division: 8
- Identification number: UN 2735
- Packing group: II

International Air Transportation (ICAO/IATA)
- Proper shipping name: Amines, liquid, corrosive, n.o.s. (Aliphatic amines)
- 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. (Aliphatic amines)
- 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).

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 Material Safety Data Sheet format.
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