

MATERIAL SAFETY DATA SHEET

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Loctite Professional Epoxy
01-06824

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite Professional Epoxy
Item No.: 01-06824
Part No.:
Product Type: Epoxy

2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients | CAS No. | % |
|---|-------------|--------|
| RESIN | | |
| Epoxy resin | 25068-38-6 | 60-100 |
| HARDENER | | |
| Polymercaptan hardener | Proprietary | 60-100 |
| N-(2-Aminoethyl)piperazine | 140-31-8 | 5-10 |
| Phenol, 2,4,6-tris[(dimethylamino)methyl] | 90-72-2 | 5-10 |
| Triethylenetetramine | 112-24-3 | 5-10 |
| Aminoethylethanolamine | 111-41-1 | 1-5 |
| Silica, amorphous, fumed, Crystalline-free | 112945-52-5 | 1-5 |
| Heptakis(dipropyleneglycol)- triphosphate | 13474-96-9 | 1-5 |
| DIETHYLENETRIAMINE | 111-40-0 | 1-5 |

Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients | ACGIH (TLV) | OSHA (PEL) | OTHER |
|---|------------------------|-------------------------|--|
| RESIN | | | |
| None | | | |
| HARDENER | | | |
| Silica, amorphous, fumed, Crystalline-free | 6mg/m ³ TWA | 10mg/m ³ TWA | 3mg/m ³ TWA Respirable Dust |
| DIETHYLENETRIAMINE | 1 ppm TWA (skin) | None | None |

3. HAZARDS IDENTIFICATION

Toxicity: Causes eye and skin burns.
May cause allergic skin and respiratory reaction.
May cause respiratory tract irritation.
May be harmful if absorbed through skin.

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3. HAZARDS IDENTIFICATION

(continued)

Primary Routes of Entry: Ingestion, skin, inhalation, eye contact

Signs and Symptoms

of Exposure:

Eye or skin irritation or injury. Allergic responses such as sensitization or dermatitis.

Existing Conditions

Aggravated by Exposure:

Skin disorders. Skin allergies. Respiratory disorders. Eye disorders. Asthma

| Ingredients | Literature Referenced | Carcinogen | | |
|---|---------------------------------------|------------|------|------|
| | Target Organ and Other Health Effects | NTP | IARC | OSHA |
| RESIN | | | | |
| Epoxy resin | ALG IRR | NO | NO | NO |
| HARDENER | | | | |
| Polymercaptan hardener | No data | NO | NO | NO |
| N-(2-Aminoethyl)piperazine | IRR | NO | NO | NO |
| Triethylenetetramine | ALG IRR MUT | NO | NO | NO |
| Phenol, 2,4,6-tris[(dimethylamino)methyl] | ALG IRR | NO | NO | NO |
| Aminoethylethanolamine | ALL IRR | NO | NO | NO |
| Silica | Nuisance dust | NO | NO | NO |
| Heptakis(dipropyleneglycol)-triphosphate | No data | NO | NO | NO |
| DIETHYLENETRIAMINE | ALG EYE IRR | NO | NO | NO |

Abbreviations

| | |
|---------------|------------|
| ALG Allergen | BLO Blood |
| COR Corrosive | EYE Eyes |
| IRR Irritant | KID Kidney |
| NR No Records | SPL Spleen |
| MUT Mutagen | |

4. FIRST AID MEASURES

| | |
|---------------|--|
| Ingestion: | Do not induce vomiting. Keep individual calm. Obtain medical attention. |
| Inhalation: | RESIN: Not Applicable HARDENER: Remove to fresh air. If symptoms persist, obtain medical attention. |
| Skin Contact: | Wash immediately with soap and water. Do not use solvents for cleaning skin. |
| Eye Contact: | Flush copiously with water for 15 minutes and get prompt Medical attention. |

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5. FIRE FIGHTING MEASURES

Flash Point: More than 93 °C (200°F) Method: Tag Closed Cup

Recommended

Extinguishing Agents: Water spray (fog) Carbon dioxide, foam, dry chemical
Special Firefighting

Procedures: Wear self-contained breathing apparatus and full
protective clothing, such as turn-out gear.

Hazardous Products formed

by Fire or Thermal Decomp: Before use, amine vapors may be evolved at high
temperatures; oxides of carbon; ammonia, amines. Nitric
acid nitrosamines. Irritating organic compounds.

Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air)Lower Not available

(% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak: Avoid skin contact. Scrape up as much as possible.
Clean residues with solvent or soap and water.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Do not breathe mist or
vapors. Keep container closed. Avoid contact with eyes, skin
and clothing. Wash thoroughly after handling.

Storage: Store at or below 100°F. Store in original container until ready
to use. Keep in a cool, well-ventilated area away from heat,
sparks and open flame. Keep container tightly closed until ready
for use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Rubber or Professional gloves.

Ventilation: Sufficient to maintain vapor concentration
below TLV.

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

See Section 2 for Exposure Limits.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------|---|
| Appearance: | Hardener: Opaque Resin: translucent clear |
| Odor: | Mild |
| Boiling Point: | More than 300°F |
| pH: | Not Applicable |
| Solubility in Water: | Slight |
| Specific Gravity | Resin 1.17, Hardener 0.98 |
| Volatile Organic Compound | 0.113% Resin and Hardener together |
| Vapor Pressure: | Less than 5mm Hg at 20°C (68°F) |
| Vapor Density: | Not available |
| Evaporation Rate (Ether = 1) | Not Available |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | Stable |
| Hazardous Polymerization: | Will not occur |
| Incompatibility: | Strong oxidizers, acids, Halogenated compounds. Strong mineral acids. Reactive materials. Calcium hypochlorite. Sodium hypochlorite. Nitrous acid and other nitrosating agents. |
| Conditions to Avoid: | Excessive heat. Storage with incompatible materials. |
| Hazardous Decomposition Products (non-thermal): | None |

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

| | |
|----------------------------------|---|
| Recommended methods of disposal: | Incinerate following EPA and local regulations. |
| EPA Hazardous Waste Number | NH - Not a RCRA Hazardous Waste Material |

14. TRANSPORTATION INFORMATION

All shipping descriptions result from components in hardener. Resin is not regulated.

DOT (49 CFR 172) Domestic Ground Transport

| | |
|-----------------------|--|
| Proper Shipping Name: | Consumer Commodity ORM-D (Not more than 1 liter); Corrosive liquids, basic, organic, n.o.s. (Contains triethylenetetramine/aminoethylpiperazine) Class 8, Packing Group II (More than four liters) UN 3267 |
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IATA

Proper Shipping Name: Corrosive liquids, basic, organic, n.o.s.
(Contains triethylenetetramine/aminoethylpiperazine)
Class or Division: Class 8, Packing Group II
UN or ID Number: UN 3267

IMO/IMDG

Proper Shipping Name: Corrosive liquids, basic, organic, n.o.s.
(Contains triethylenetetramine/aminoethylpiperazine)
Class or Division: Class 8, Packing Group II
UN or ID Number: UN 3267
Marine Pollutant: Nonylphenol

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER 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

CERCLA/SARA Section 302 EHS: None above reporting minimus.
CERCLA/SARA Section 311/312: Immediate health hazard
CERCLA/SARA Section 313: None above reporting minimus.

Estimated HMIS(R) Code:

Health Hazard: 3
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

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Prepared by:

Company: Henkel Consumer Adhesive
Regulatory Affairs (440) 937-7000