

MATERIAL SAFETY DATA SHEET

Loctite Epoxy Gel IDH No. 303419

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite Epoxy Gel

Product Type: Epoxy

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
RESIN		
Epoxy resin	Proprietary	60-100
Silica, amorphous, fumed, Crystalline-free	112945-52-5	1-5
HARDENER		
Pentaerythritol-PO- mercaptoglycerol	72244-98-5	60-100
N-(2-Aminoethyl)piperazine	140-31-8	5-10
Phenol, 2,4,6-tris[ (dimethylamino)methyl]	90-72-2	5-10
Silica, amorphous, fumed, Crystalline-free	112945-52-5	5-10
Aliphatic amines	Proprietary	1-5

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Silica, amorphous, fumed, Crystalline-free	6mg/m <sup>3</sup> TWA	10mg/m <sup>3</sup> TWA	3mg/m <sup>3</sup> TWA Respirable Dust

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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.  
May be harmful if swallowed. May cause burns of mouth and throat.

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 Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy resins	ALG IRR	NO	NO	NO
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
Diethylene triamine	ALG EYE IRR	NO	NO	NO
Hydroxyethylpiperazine	ALG CNS IRR	NO	NO	NO
Nonylphenol	ALG COR IRR KID	NO	NO	NO

Abbreviations

ALG Allergen  
COR Corrosive  
IRR Irritant  
NR No Records  
MUT Mutagen  
BLO Blood  
EYE Eyes  
KID Kidney  
SPL Spleen  
CNS Central Nervous System

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4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
Inhalation: 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. Get medical attention if symptoms occur.  
Eye Contact: Immediately flush eyes with water for 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 93 °C (200°F) Method: Tag Closed Cup  
Extinguishing Media: 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 combustion products: Oxides of carbon. Irritating organic fragments.  
Unusual Fire or Explosion Hazards: In the event of fire, cool tanks with water spray. Closed containers may rupture (due to build up of pressure)when exposed to extreme heat.  
Autoignition temperature: Not available  
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: Remove all ignition sources. Immediately contact emergency personnel. Scrape up material. Clean residue with soap and water. Store in a closed container until ready for disposal.

Environmental precautions: Prevent product from entering drains or open waters.

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.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses with side shields or goggles.  
Skin: Chemical resistant, impermeable gloves.  
Ventilation: Sufficient to maintain vapor concentration below TLV.  
Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.  
  
See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid  
Color: Hardener: Opaque Resin: translucent clear  
Odor: Mild  
Boiling Point: More than 300°F  
pH: Not Applicable  
Solubility in Water: Slightly soluble  
Specific Gravity Resin 1.12, Hardener 1.04  
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  
VOC Content: 0.113% (value for resin and hardener together)

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. Mercaptans.  
Conditions to Avoid: Excessive heat. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Dispose according to EPA and local regulations.  
EPA Hazardous Waste Number Not a RCRA hazardous waste.

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#### 14. TRANSPORTATION INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

##### DOT (49 CFR) Domestic Ground Transport:

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.  
(triethylenetetramine/aminoethylpiperazine)  
Hazard class: 8  
UN No.: UN3267  
Packing Group: II  
Exceptions: (Not more than 1L) Consumer Commodity, ORM-D

##### International Air Transportation (ICAO/IATA):

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.  
(triethylenetetramine/aminoethylpiperazine)  
Hazard class: 8  
UN No.: UN3267  
Packing Group: II

##### Water Transportation (IMO/IMDG):

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.  
(triethylenetetramine/aminoethylpiperazine)  
Class or Division: Class 8  
Packing Group: II  
UN or ID Number: UN 3267  
Marine Pollutant: None known

#### 15. REGULATORY INFORMATION

##### United States

##### TSCA 8(b) Inventory

Status: All components are listed or exempt from listing on the Toxic Substances Control Act Inventory.

##### TSCA 12(b) Export

Notification: None.

##### CERCLA/SARA 302:

None above reporting de minimus.

##### CERCLA/SARA 311/312:

Immediate Health Hazard

##### CERCLA/SARA 313:

None above reporting de minimus.

##### CA Proposition 65: (Hardener)

This product contains a chemical known to the State of California to cause cancer.

HENKEL CORPORATION  
AVON, OH 44011  
TELEPHONE: (440) 937-7000

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15. REGULATORY INFORMATION

(continued)

Canada

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing  
on the Domestic Substances List.  
WHMIS hazard class: D.2.B (Resin) E, D.2.A, D.2.B (Hardener)

16. OTHER INFORMATION

HMIS(R) Code:  
Health Hazard: 3  
Flammability Hazard: 1  
Reactivity Hazards: 1  
Personal Protection: See Section 8.

HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared by:  
Company: Henkel Corporation  
Regulatory Affairs (440) 937-7000