



Revision Number: 004.1

Issue date: 03/15/2010

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite Plastic Epoxy-Resin  
**Product type:** Epoxy resin  
**Item number:** 1360788  
**Region:** United States  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, CT 06067  
**Contact information:**  
 Telephone: 800.624.7767  
 Emergency telephone: 800.424.9300

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	2
<b>Color:</b>	Translucent, Clear	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	None	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** MAY CAUSE ALLERGIC SKIN REACTION.  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

**Potential Health Effects**

**Inhalation:** Mild respiratory tract irritation.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Itching. Redness.  
**Eye contact:** Moderate eye irritation. Redness.  
**Ingestion:** Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	CAS NUMBER	%
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	60 - 100

**4. FIRST AID MEASURES**

**Inhalation:** Move to fresh air. If symptoms develop and persist, get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.

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

**Ingestion:** Keep individual calm. DO NOT induce vomiting unless directed to do so by medical personnel. If symptoms develop and persist, get medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	> 249 °C (> 480.2 °F) Pinsky Martens closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	Not available
<b>Flammable/Explosive limits - upper:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	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.
<b>Hazardous combustion products:</b>	Oxides of carbon. 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.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed.
<b>Storage:</b>	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

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.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None

<b>Engineering controls:</b>	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Translucent, Clear

**Odor:** None  
**Odor threshold:** Not available  
**pH:** Not applicable  
**Vapor pressure:** 0.03 mm Hg  
**Boiling point/range:** > 260.2 °C (> 500.4 °F)  
**Melting point/ range:** Not available  
**Specific gravity:** 1.17  
**Vapor density:** Not available  
**Flash point:** > 249 °C (> 480.2 °F) Pensky Martens 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:** Slight  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 0.1 % (value for resin and hardener together)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Hazardous reactions:** Will not occur.  
**Hazardous decomposition products:** None  
**Incompatible materials:** Strong oxidizing agents. Strong bases. Strong acids. Amines.  
**Conditions to avoid:** Excessive heat. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant

## 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:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA)**

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

**Water Transportation (IMO/IMDG)**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrine resin)  
Hazard class or division: 9  
Identification number: UN 3082  
Packing group: III

**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 minimus  
CERCLA/SARA Section 302 EHS: None above reporting de minimus  
CERCLA/SARA Section 311/312: Immediate Health  
CERCLA/SARA 313: None above reporting de minimus  
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.  
WHMIS hazard class: D.2.B

**16. OTHER INFORMATION**

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

Prepared by: Regulatory Affairs

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



Revision Number: 001.1

Issue date: 03/15/2010

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite Plastic Epoxy- Hardener  
**Product type:** Epoxy Hardener  
**Item number:** 1360788  
**Region:** United States  
**Company address:** Henkel Corporation  
 One henkel Way  
 Rocky Hill, CT 06067  
**Contact information:** Telephone: 800.624.7767  
 Emergency telephone: 800.424.9300

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	*3
<b>Color:</b>	Amber, Translucent	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Amine, Mercaptan	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**DANGER:** CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.  
 MAY CAUSE ALLERGIC SKIN REACTION.  
 HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

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

**Potential Health Effects**

**Inhalation:** Respiratory tract burns. May cause respiratory tract irritation. May cause irritation to nose and throat. Lung damage.  
**Skin contact:** May cause skin burns. May cause allergic skin reaction. May be harmful if absorbed through skin. Rash. Redness. Tissue damage.  
**Eye contact:** Burns. Severe eye irritation. Redness. Tissue damage.  
**Ingestion:** May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders. Skin allergies. Asthma.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	CAS NUMBER	%
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptan	72244-98-5	60 - 100
m-Phenylenebis(methylamine)	1477-55-0	10 - 30
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	5 - 10
Phenol	108-95-2	1 - 5

**4. FIRST AID MEASURES**

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

<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	> 93 °C (> 199.4 °F) Tagliabue closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	Not available
<b>Flammable/Explosive limits - upper:</b>	Not available
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	In case of fire, keep containers cool with water spray.
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen. Ammonia. Amines. Nitric acid. Nitrosamines 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.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	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

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.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
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	None	None	None	None
m-Phenylenebis(methylamine)	0.1 mg/m <sup>3</sup> Ceiling (SKIN)	None	None	None
2,4,6-Tris(dimethylaminomethyl)phenol	None	None	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m <sup>3</sup> ) TWA (SKIN)	None	None

<b>Engineering controls:</b>	Use local exhaust ventilation if the potential for airborne exposure exists.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of nitrogen. Ammonia. Amines. Nitric acid. Nitrosamines. Irritating organic fragments.
<b>Incompatible materials:</b>	Strong acids. Strong oxidizing agents. Halogenated compounds. Strong mineral acids. Reactive metals. Calcium hypochlorite. Sodium hypochlorite. Nitrous acid and other nitrosating agents.
<b>Conditions to avoid:</b>	Excessive heat. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
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	No	No	No
m-Phenylenebis(methylamine)	No	No	No
2,4,6-Tris(dimethylaminomethyl)phenol	No	No	No
Phenol	No	No	No

Hazardous components	Health Effects/Target Organs
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	No Data
m-Phenylenebis(methylamine)	Irritant, Liver, Kidney, Corrosive
2,4,6-Tris(dimethylaminomethyl)phenol	Irritant, Allergen
Phenol	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular

## 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:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

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

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. (aliphatic Amine)  
**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 Amine)  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** II

### Water Transportation (IMO/MDG)

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (aliphatic Amine)  
**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 minimus

**CERCLA/SARA Section 302 EHS:** Phenol (CAS# 108-95-2).  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA 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:** No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

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

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Regulatory Affairs

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.