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# Material Safety Data Sheet



Revision Number: 004.1

Issue date: 02/19/2013

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Loctite(R) Fix(R) Steel Liquid  
**Product use:** Epoxy resin

**IDH number:** 702244  
**Item number:** 97483\_10256000  
**Region:** Canada

**Company address:**  
Henkel Corporation  
2515 Meadowpine Boulevard  
Mississauga, Ontario L5N 6C3

**Contact information:**  
Telephone: 905.814.6511  
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

**Physical state:** paste  
**Color:** Gray  
**Odor:** Mild

**WHMIS hazard class:** D.2.A, D.2.B

**WARNING:** MAY CAUSE ALLERGIC SKIN REACTION.  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

### Potential Health Effects

**Inhalation:** Mild respiratory tract irritation. Coughing. Vapors and mists will irritate nose and throat and possibly eyes. Dusts from solid adhesive may cause irritation.  
**Skin contact:** May cause allergic skin reaction. Itching. Moderate skin irritation. Redness. Contact at elevated temperatures may cause thermal burns.  
**Eye contact:** Moderate eye irritation. Redness. Excess tearing. Contact at elevated temperatures may cause thermal burns. May cause eye injury.  
**Ingestion:** May be harmful if swallowed. Nausea. Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.

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

See Section 11 for additional toxicological information.

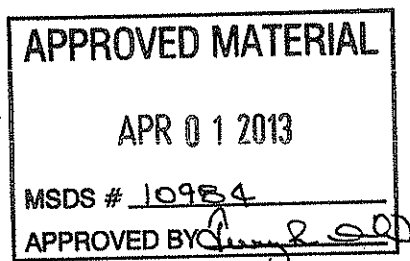
## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Diiron trioxide	1309-37-1	30 - 60
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60
Neopentyl glycol diglycidyl ether	17557-23-2	1 - 5
Manganese	7439-96-5	0.1 - 1

## 4. FIRST AID MEASURES

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

IDH number: 702244



Product name: Loctite(R) Fix(R) Steel Liquid

<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing 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. Get medical attention.

## 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	204 °C (399.2 °F) Pensky 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>	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. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). In case of fire, keep containers cool with water spray. Caution should be exercised when using water or foam as frothing may occur.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
<b>Hazardous combustion products:</b>	Oxides of carbon. Acids. Phenolics. Toxic fumes. Aldehydes. Irritating organic fragments.
<b>Sensitivity to Mechanical Impact:</b>	Not available.
<b>Sensitivity to static discharge:</b>	Not available.

## 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>	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>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Canada Customer Service at 800-263-5043.

## 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
Diiron trioxide	5 mg/m3 TWA Respirable fraction.	10 mg/m3 TWA Fume.	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Neopentyl glycol diglycidyl ether	None	None	None	None
Manganese	0.2 mg/m3 TWA (as Mn)	5 mg/m3 Ceiling (as Mn) Fume.	None	None

**Engineering controls:** Use local exhaust ventilation if the potential for airborne exposure exists.

**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.

**Skin protection:** Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** paste

**Color:** Gray

**Odor:** Mild

**Odor threshold:** Not available.

**pH:** Not available.

**Vapor pressure:** Not applicable

**Boiling point/range:** Not applicable

**Melting point/ range:** Not available.

**Specific gravity:** 2.352

**Vapor density:** > 1 (Air = 1)

**Flash point:** 204 °C (399.2 °F) Pensky Martens closed cup

**Flammable/Explosive limits - lower:** Not available.

**Flammable/Explosive limits - upper:** Not available.

**Autoignition temperature:** Not available.

**Evaporation rate:** Less than butyl acetate.

**Solubility in water:** Insoluble

**Partition coefficient (n-octanol/water):** Not available.

**VOC content:** < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** None

**Incompatible materials:** Strong oxidizing agents. Strong Lewis acids. Strong mineral acids. Strong bases. Amines. Mercaptans. Strong alkalis.

**Conditions to avoid:** Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

**Toxicologically synergistic products:** Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Diiron trioxide	No	No	No	Group A4
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No	No
Neopentyl glycol diglycidyl ether	No	No	No	No
Manganese	No	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Diiron trioxide	None	Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Neopentyl glycol diglycidyl ether	None	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive
Manganese	None	Immune system, Irritant, Lung, Nervous System, Reproductive, Respiratory

**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.

**14. TRANSPORT INFORMATION**

**Canada Transportation of Dangerous Goods - Ground**

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

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

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)  
Hazard class or division: 9  
Identification number: UN 3082  
Packing group: III

**Water Transportation (IMO/IMDG)**

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

## 15. REGULATORY INFORMATION

### Canada Regulatory Information

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

### 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.

## 16. OTHER INFORMATION

**This material safety data sheet contains changes from the previous version in sections: 1**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.**

**Prepared by:** Gary Pierson, Manager, Regulatory Affairs

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