

(10983)

# Material Safety Data Sheet



Revision Number: 003.2

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Loctite(R) Fixmtr(R) Steel Liq  
**Product use:** Epoxy Hardener

**IDH number:** 702245  
**Item number:** 97483\_239000  
**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:** Liquid  
**Color:** Blue  
**Odor:** Ammoniacal  
**WHMIS hazard class:** D.2.A, D.2.B, E

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

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

### Potential Health Effects

**Inhalation:** Respiratory tract burns. Allergic respiratory reaction. Shortness of breath. Coughing.  
**Skin contact:** May be harmful if absorbed through skin. May cause allergic skin reaction. Itching. Rash. Causes skin burns. Pain and discomfort. Tissue damage.  
**Eye contact:** Causes eye burns. Blurred vision. Excess tearing. Pain and discomfort. Tissue damage. Liquid, aerosols or vapor are irritating and can cause tearing, reddening and swelling. Corneal edema may give appearance of "blue haze" or "fog" around lights.  
**Ingestion:** May be harmful if swallowed. Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. May cause an aspiration hazard if swallowed. If swallowed, may be aspirated into the lungs resulting in inflammation and possible fluid accumulation.

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

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Aliphatic amine	Proprietary	30 - 60
Amine adduct	Proprietary	30 - 60
N-Aminoethylpiperazine	140-31-8	10 - 30
Nonylphenol	25154-52-3	5 - 10
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	1 - 5
Polyoxypropylentriamine	64852-22-8	1 - 5

IDH number: 702245

**APPROVED MATERIAL**

JUL 13 2012

MSDS # 10983

APPROVED BY *Jerry R. Sil*

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. 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. 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>	> 93 °C (> 199.4 °F)
<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>	None
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen. Ammonia. Aldehydes. Acids. Phenolics.
<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>	Rinse spill area with water. Wipe up with adsorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Do not taste or swallow. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<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 (905) 814-6511.

## 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
Aliphatic amine	None	None	1 ppm (6 mg/m <sup>3</sup> ) TWA (SKIN)	None
Amine adduct	None	None	None	None
N-Aminoethylpiperazine	None	None	None	None
Nonylphenol	None	None	None	None
Fatty acids, tail-oil, reaction products with tetraethylenepentamine	None	None	None	None
Polyoxypropylentriamine	None	None	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. Neoprene, Butyl-rubber, or nitrile-rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Blue
<b>Odor:</b>	Ammoniacal
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Boiling point/range:</b>	137 - 293 °C (278.6 - 559.4 °F)
<b>Melting point/ range:</b>	Not available.
<b>Specific gravity:</b>	0.99
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	> 93 °C (> 199.4 °F)
<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>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	< 1.0 %; < 10 g/l (value for resin and hardener together) (estimated)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	None
<b>Incompatible materials:</b>	Strong oxidizing agents. Strong Lewis acids. Strong mineral acids. Strong bases. Aldehydes. Ketones. Acrylates. Organic halides.
<b>Conditions to avoid:</b>	Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicologically synergistic products:</b>	Not available.
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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
Aliphatic amine	No	No	No	No
Amine adduct	No	No	No	No
N-Aminoethylpiperazine	No	No	No	No
Nonylphenol	No	No	No	No
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	No	No	No	No
Polyoxypropylentriamine	No	No	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Aliphatic amine	None	Allergen, Corrosive, Developmental, Irritant, Mutagen
Amine adduct	None	No Records
N-Aminoethylpiperazine	None	Irritant, Corrosive, Allergen
Nonylphenol	Oral LD50 (RAT) = 1,600 mg/kg Oral LD50 (RAT) = 1,620 mg/kg Dermal LD50 (rabbit) = 2,140 mg/kg	Allergen, Corrosive, Irritant, Kidney
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	None	No Records
Polyoxypropylentriamine	None	No Records

**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: AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethylpiperazine, Triethylenetetramine, Nonylphenol)  
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. (Aminoethylpiperazine, Triethylenetetramine, Nonylphenol)  
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. (Aminoethylpiperazine, Triethylenetetramine, Nonylphenol)  
Hazard class or division: 8  
Identification number: UN 2735  
Packing group: II  
Marine pollutant: Nonylphenol

## 15. REGULATORY INFORMATION

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

### 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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