



Revision Date: 08/04/2004

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Loctite(R) Fixmaster(R) Superior Metal Hardener/Resin High Strength Epoxy

**Item No. :** 97473\_HARDENER

**Product type:** Epoxy Hardener

**Region:** United States

**Company address:**  
Henkel Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067

**Contact Information:**  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.loctite.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Calcium carbonate 471-34-1	30-60	10 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable fraction)	None
Amine adduct Proprietary	10-30	None	None	None
Triethylenetetramine 112-24-3	5-10	None	None	None
Diethylene triamine 111-40-0	5-10	1 ppm TWA (skin)	None	None
Silica, amorphous (fumed) 7631-86-9	5-10	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust
Nonylphenol 25154-52-3	1-5	None	None	None
Titanium dioxide 13463-67-7	1-5	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA total dust	None
Stearic acid 57-11-4	1-5	None	None	None
Imidazole 931-36-2	1-5	None	None	None

### 3. HAZARDS IDENTIFICATION

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## EMERGENCY OVERVIEW

### HMIS:

**Physical state:** Paste  
**Color:** Dark blue Grey  
**Odor:** Amine-like

**HEALTH:** 3\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

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

**Relevant routes of exposure:** Eye contact, Ingestion, Inhalation, Skin contact

### Potential Health Effects

**Inhalation:** May cause respiratory tract irritation. May cause irritation to nose and throat.  
**Skin contact:** May be harmful if absorbed through skin. Allergic skin reaction. Itching. Rash. May cause skin burns. Redness. Pain and discomfort. Tissue damage.  
**Eye contact:** Burns. Severe eye irritation. Redness. Tissue damage. Blurred vision. Pain and discomfort.  
**Ingestion:** May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

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

See Section 11 for additional toxicological information.

## 4. FIRST AID MEASURES

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

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.

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

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention immediately.

**Notes to physician:** None.

## 5. FIRE-FIGHTING MEASURES

**Flash point:** Greater than 93°C (200°F) Tagliabue closed cup

**Autoignition temperature:** Not available

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

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

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** In the event of fire, cool tanks with water spray.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Irritating organic fragments. Ammonia. Aldehydes. Acids. Phenolics.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Remove all ignition sources. 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>	Do not get on skin or clothing. Do not taste or swallow. Do not breathe mist or vapors. Keep away from heat, spark and flame. Keep container closed. 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.
<b>Incompatible products:</b>	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves. Nitrile gloves. Butyl rubber gloves.
<b>Eye/face protection:</b>	Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Dark blue Grey
<b>Odor:</b>	Amine-like
<b>Vapor pressure:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not determined
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.57
<b>Vapor density:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Slightly soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	None
<b>Incompatibility:</b>	Strong acids. Strong bases. Strong oxidizers. Amines. Water.
<b>Conditions to avoid:</b>	Excessive heat. Storage with incompatible materials.

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## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Calcium carbonate 471-34-1	No	No	No
Amine adduct Proprietary	No	No	No
Triethylenetetramine 112-24-3	No	No	No
Diethylene triamine 111-40-0	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Nonylphenol 25154-52-3	No	No	No
Titanium dioxide 13463-67-7	No	No	No
Stearic acid 57-11-4	No	No	No
Imidazole 931-36-2	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Calcium carbonate 471-34-1	Nuisance dust
Amine adduct Proprietary	No Records
Triethylenetetramine 112-24-3	Allergen, Developmental, Irritant, Mutagen
Diethylene triamine 111-40-0	Allergen, Eyes, Irritant
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Nonylphenol 25154-52-3	Allergen, Corrosive, Irritant, Kidney
Titanium dioxide 13463-67-7	Irritant, Respiratory
Stearic acid 57-11-4	Irritant
Imidazole 931-36-2	No Target Organs

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose according to EPA and local governmental regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

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

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**U.S. Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Corrosive solid, basic, organic,n.o.s. ( Triethylenetetramine , nonylphenol )  
**Hazard class or division:** 8  
**Identification number:** UN 3263  
**Packing group:** II  
**Exceptions:** (Not more than 1 Kg) Consumer Commodity ORM-D

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

**Proper shipping name:** Corrosive solid, basic, organic,n.o.s. ( Triethylenetetramine , nonylphenol )  
**Hazard class or division:** 8  
**Identification number:** UN 3263  
**Packing group:** II

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Corrosive solid, basic, organic,n.o.s. ( Triethylenetetramine , nonylphenol )  
**Hazard class or division:** 8  
**Identification number:** UN 3263  
**Packing group:** II  
**Marine pollutant:** None known

**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.  
**CERCLA/SARA Section 302 EHS:** None.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard  
**CERCLA/SARA 313:** None above reporting de minimus.  
**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer.

**Canada Regulatory Information**

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

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

**Prepared by:** Gary Pierson, Health and Regulatory Affairs Specialist

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