



Revision Date: 03/18/2003

Print date: 03/18/2003

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** FIXMASTER Metal Magic Steel  
**Product type:** Epoxy stick  
**Company address:**  
Henkel Loctite Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067  
Telephone: (860) 571-5100  
Emergency telephone: (860) 571-5100

**Item number:** 98853  
**Region:** United States

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Talc 14807-96-6	30-60	2 mg/m <sup>3</sup> TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica)	20 mppcf	50 ppm
Epoxy resin 25068-38-6	10-30	None	None	None
Sodium aluminum borosilicate 65997-17-3	10-30	1 f/cc TWA (respirable fibers: length > 5 um, aspect ratio equal to or greater than 3:1) 5 mg/m <sup>3</sup> TWA (inhalable particulate)	None	None
Silica, quartz 14808-60-7	5-10	0.05 mg/m <sup>3</sup> TWA (respirable fraction)	0.1mg/m <sup>3</sup> TWA (respirable)	None
Phenol, 2,4,6-tris[(dimethylamino)methyl] 90-72-2	5-10	None	None	None

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****HMIS:**

<b>Physical state:</b> Putty	<b>HEALTH:</b>	1*
<b>Color:</b> Black Metallic	<b>FLAMMABILITY:</b>	1
<b>Odor:</b> Sulfur, Mercaptan	<b>PHYSICAL HAZARD:</b>	0
	<b>Personal Protection:</b>	See Section 8

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

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

**Potential Health Effects**

Item number: 98853

Product name: FIXMASTER Metal Magic Steel

<b>Inhalation:</b>	Not a relevant route of exposure. Respirable crystalline silica (quartz) is classified as a possible carcinogen. The crystalline silica present in this product is encapsulated in the epoxy resin and could only be liberated by sanding or abrading, and then not a pure crystalline silica. Appropriate precautions; however, should be taken if the product is sanded or abraded to preclude personnel from breathing the dust.
<b>Skin contact:</b>	Irritating to skin. May cause allergic skin reaction.
<b>Eye contact:</b>	Contact with eyes will cause irritation.
<b>Ingestion:</b>	May cause gastrointestinal tract irritation if swallowed.

**Existing conditions aggravated by exposure:** None known

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing 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. Keep individual calm. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	Not available.
<b>Autoignition temperature:</b>	Not applicable
<b>Flammable/Explosive limits-lower %:</b>	Not applicable
<b>Flammable/Explosive limits-upper %:</b>	Not applicable
<b>Extinguishing media:</b>	Carbon dioxide (CO2). Foam. Dry chemical. Water spray.
<b>Special fire fighting 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>	Aldehydes. Acids. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	None known
<b>Clean-up methods:</b>	Scrape up as much material as possible. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Wash thoroughly after handling. Empty container precaution: Attention! This container can be hazardous when empty. Follow label cautions even after the container is empty since empty containers could retain product residues. Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur.
<b>Storage:</b>	For safe storage, store at or below 32°C (90°F). Keep in a cool, well ventilated area.
<b>Incompatible products:</b>	None.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation if heated above 38°C (100°F) to maintain concentrations below occupational exposure limits.
<b>Respiratory protection:</b>	Not normally required. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Skin protection:</b>	Chemical resistant, impermeable gloves. Because a variety of protective gloves exist, consult manufacturer to determine the proper type for a specific operation.
<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>	Putty
<b>Color:</b>	Black Metallic
<b>Odor:</b>	Sulfur, Mercaptan
<b>Vapor pressure:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not applicable
<b>Specific gravity:</b>	2.18
<b>Vapor density:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable
<b>VOC content:</b>	<1%

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Hazardous polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Aldehydes. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Acids.
<b>Incompatability:</b>	None
<b>Conditions to avoid:</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Talc	No	No	No
Epoxy resin	No	No	No
Sodium aluminum borosilicate	Suspect Carcinogen	No	No
Silica, quartz	Known Carcinogen	Group 1	Yes
Phenol, 2,4,6-tris[(dimethylamino)methyl]	No	No	No

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Talc	Some evidence of carcinogenicity, Lung, Irritant
Epoxy resin	Allergen, Irritant
Sodium aluminum borosilicate	Allergen, Respiratory
Silica, quartz	Some evidence of carcinogenicity, Lung, Immune system, ACGIH suspected human carcinogen
Phenol, 2,4,6-tris[(dimethylamino)methyl]	Allergen, Irritant

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not applicable

## 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

### U.S. DOT 49 CFR:

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

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

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### Water Transportation (IMO/IMDG):

**Proper shipping name:** Unrestricted  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None  
**Marine pollutant:** None

## 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, Delayed Health Hazard  
**CERCLA/SARA 313:** None.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer. Silica, Quartz (CAS# 14808-60-7) . Sodium Aluminum Borosilicate (CAS# 65997-17-3).

### Canada Regulatory Information

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** D.2.A, 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:** Rajal Dhruva, Health and Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Loctite Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Loctite Corporation has no control. It is the user's responsibility to determine the suitability of Henkel Loctite'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 Loctite Corporation's products. In light of the foregoing, Henkel Loctite 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 Loctite Corporation's products. Henkel Loctite Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.