Material Safety Data Sheet

Revision Date: 12/15/2004 **Issue date:** 12/16/2004

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Fixmaster® Metal Magic Steel(TM) Epoxy
Product type: Epoxy stick
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 98853
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Talc 14807-96-6	30-60	2 mg/m³ TWA respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica	= 20 mppcf TWA	50 ppm
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	10-30	None	None	None
Soda lime borosilicate glass 65997-17-3	10-30	1 f/cc TWA respirable fibers: length > 5 µm, aspect ratio equal to or greater than 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination. 5 mg/m³ TWA inhalable fraction	None	None
Polyether polymercaptan UNKNOWN	5-10	None	None	None
Phenol, 2,4,6-tris[(dimethylamino)methyl] 90-72-2	5-10	None	None	None
Silica, quartz 14808-60-7	5-10	0.05 mg/m³ TWA respirable fraction	0.1mg/m³ TWA (respirable)	None
Treated fumed silica 67762-90-7	1-5	10mg/m³ Inhalable fraction, 3mg/m³ Respirable fraction, TWA	5mg/m³ Respirable dust, 15mg/m³ Total dust	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:	Putty	**HEALTH:**	1*
Color:	Black Metallic	**FLAMMABILITY:**	1
Odor:	Sulfur, Mercaptan	**PHYSICAL HAZARD:**	0
		Personal Protection:	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

Inhalation: 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 ony 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.

Skin contact: Irritating to skin. May cause allergic skin reaction.

Eye contact: Contact with eyes will cause irritation.

Ingestion: 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

Inhalation: Remove 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 shoes. Wash clothing before reuse. Get medical attention.

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

Ingestion: Do not induce vomiting. Keep individual calm. Never give anything by mouth to an unconscious person. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: Not applicable

Autoignition temperature: Not applicable

Flammable/Explosive limits-lower %: Not applicable

Flammable/Explosive limits-upper %: Not applicable

Extinguishing media: Carbon dioxide (CO2). Foam. Dry chemical. Water spray.

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

Unusual fire or explosion hazards: None

Hazardous combustion products: Aldehydes. Acids. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: None known

Clean-up methods: Scrape up as much material as possible. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling: 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 consumtion, or where skin contact can occur.

Storage: For safe storage, store at or below 32°C (90°F). Keep in a cool, well ventilated area.

Incompatible products: None.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation if heated above 38°C (100°F) to maintain concentrtions below occupational exposure limits.

Respiratory protection: Not normally required. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Chemical resistant, impermeable gloves. Because a variety of protective gloves exist, consult manufacturer to determine the proper type for a specific operation.

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Putty
Color:	Black Metallic
Odor:	Sulfur, Mercaptan
Vapor pressure:	Not applicable
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not applicable
Specific gravity:	2.18
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in water:	Not available
Partition coefficient (n-octanol/water):	Not available
VOC content:	<1%

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Aldehydes. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Acids.

Incompatability: None

Conditions to avoid: None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Talc 14807-96-6	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	No	No	No
Soda lime borosilicate glass 65997-17-3	Suspect Carcinogen	No	Yes
Polyether polymercaptan UNKNOWN	No	No	No
Phenol, 2,4,6-tris[(dimethylamino)methyl] 90-72-2	No	No	No
Silica, quartz 14808-60-7	Known Carcinogen	Group 1	Yes
Treated fumed silica 67762-90-7	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Talc 14807-96-6	Some evidence of carcinogenicity, Lung, Irritant
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Soda lime borosilicate glass 65997-17-3	Allergen, Respiratory
Polyether polymercaptan UNKNOWN	No data
Phenol, 2,4,6-tris[(dimethylamino)methyl] 90-72-2	Allergen, Irritant
Silica, quartz 14808-60-7	Some evidence of carcinogenicity, Lung, Immune system
Treated fumed silica 67762-90-7	No Target Organs

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. Department of Transportation Ground (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

WaterTransportation (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/NDSL 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.

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