Material Safety Data Sheet

Revision Date: 12/15/2004

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.locite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc 14807-96-6</td>
<td>30-80</td>
<td>2 mg/m³ TWA respirable fraction, particulate matter containing no asbestos and &lt; 1% crystalline silica</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Epichlorohydrin-4,4'-isopropylidene diolefin resin 25088-38-6</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Soda lime borosilicate glass 65907-17-3</td>
<td>10-30</td>
<td>1 f/cc TWA respirable fibers: length &gt; 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</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Polyether polymericcaptan UNKNOWN</td>
<td>5-10</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Phenol, 2,4,6-tris(dimethylamino)methyl 90-72-2</td>
<td>5-10</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Silica, quartz 14888-60-7</td>
<td>5-10</td>
<td>0.05 mg/m³ TWA respirable fraction</td>
<td>0.1 mg/m³ TWA (respirable)</td>
<td>None</td>
</tr>
<tr>
<td>Treated fumed silica 67762-90-7</td>
<td>1-5</td>
<td>10 mg/m³ Inhalable fraction, 3 mg/m³ Respirable fraction, TWA</td>
<td>5 mg/m³ Respirable dust, 15 mg/m³ Total dust</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Item No.: 98853
**EMERGENCY OVERVIEW**

**HMIB:**

Physical state: Putty  
Color: Black Metallic  
Odor: Sulfur, Mercaptan  

**HEALTH:**  
1*  

**FLAMMABILITY:**  
1  

**PHYSICAL HAZARD:**  
0  

**Personal Protection:** See Section 8

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

Potential Health Effects:

- **Inhalation:** Not a relevant route of exposure. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the epoxy resin and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be a pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust. Irritating to skin. May cause allergic skin reaction. Contact with eyes will cause irritation. May cause gastrointestinal tract irritation if swallowed.

- **Skin contact:** None known

- **Eye contact:** None known

- **Ingestion:** None known

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

Existing conditions aggravated by exposure:

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


**6. ACCIDENTAL RELEASE MEASURES**

Item No.: 98853

Product name: Fixmaster® Metal Magic Steel(TM) Epoxy
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 consumption, 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 (600) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation if heated above 38°C (100°F) to maintain concentrations 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.


Incompatibility: None

Conditions to avoid: None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Product name: Fixmaster® Metal Magic Steel(TM) Epoxy

Item No.: 98853

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<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>14807-96-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epichlorohydrin-4,4'-isopropylidene diphenoxy resin</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>25068-38-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>Suspect Carcinogen</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>65997-17-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyether polymercaptan</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenol, 2,4,6-tris(dimethylamino)methyl</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>80-72-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica, quartz</td>
<td>Known Carcinogen</td>
<td>Group 1</td>
<td>Yes</td>
</tr>
<tr>
<td>14808-80-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treated fumed silica</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>67762-90-7</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>Some evidence of carcinogenicity, Lung, Irritant</td>
</tr>
<tr>
<td>14807-96-5</td>
<td></td>
</tr>
<tr>
<td>Epichlorohydrin-4,4'-isopropylidene diphenoxy resin</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>25068-38-9</td>
<td></td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>Allergen, Respiratory</td>
</tr>
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<td>65997-17-3</td>
<td></td>
</tr>
<tr>
<td>Polyether polymercaptan</td>
<td>No data</td>
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<tr>
<td>UNKNOWN</td>
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<tr>
<td>Phenol, 2,4,6-tris(dimethylamino)methyl</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>80-72-2</td>
<td></td>
</tr>
<tr>
<td>Silica, quartz</td>
<td>Some evidence of carcinogenicity, Lung, Immune system</td>
</tr>
<tr>
<td>14808-80-7</td>
<td></td>
</tr>
<tr>
<td>Treated fumed silica</td>
<td>Irritant</td>
</tr>
<tr>
<td>67762-90-7</td>
<td></td>
</tr>
</tbody>
</table>

**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

**Water Transportation (IMO/IMDG):**

- **Proper shipping name:** Unrestricted

Item No.: 96853

Product name: Fixmaster® Metal Magic Steel(TM) Epoxy