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Issue date: 05/15/2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Fixmaster Wear Resistant Putty  
**Product type:** Epoxy Hardener  
**Company address:**  
 Henkel Corporation  
 1001 Trout Brook Crossing  
 Rocky Hill, Connecticut 06067

**Item No. :** 98742\_363000 / IDH No. 702267  
**Region:** United States  
**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>            |
|---|----------|---|--|-------------------------|
| Aluminum oxide<br>1344-28-1                               | 60-100   | 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<br>5 mg/m <sup>3</sup> TWA respirable fraction | None                    |
| Amine reacted fatty acid<br>Proprietary                   | 10-30    | None  | None   | None                    |
| Nonylphenol<br>25154-52-3                                 | 1-5      | None  | None   | None                    |
| Diethylene triamine<br>111-40-0                           | 1-5      | 1 ppm TWA (skin)  | None   | None                    |
| Silica, amorphous, fumed, crystalline-free<br>112945-52-5 | 1-5      | 10 mg/m <sup>3</sup> TWA inhalable<br>3 mg/m <sup>3</sup> TWA respirable                      | 6 mg/m <sup>3</sup> TWA  | None                    |
| Epoxy polyamine adduct<br>Unknown                         | 1-5      | None  | None   | None                    |
| 4,4'-Isopropylidenediphenol<br>80-05-7                    | 1-5      | None  | None   | None                    |
| Triethylenetetramine<br>112-24-3                          | 1-5      | None  | None   | 1 ppm, skin TWA, (WEEL) |
| N-(2-Aminoethyl)piperazine<br>140-31-8                    | 1-5      | None  | None   | None                    |

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Paste  
**Color:** Dark grey  
**Odor:** Ammoniacal

#### HMIS:

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

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

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

### Potential Health Effects

**Item No. :** 98742\_363000 / IDH No. 702267

**Product name:** Fixmaster Wear Resistant Putty

|  |  |
|--|--|
| <b>Inhalation:</b>                                 | Allergic respiratory reaction. May cause respiratory tract irritation. May cause irritation to nose and throat.                |
| <b>Skin contact:</b>                               | May cause skin burns. Allergic skin reaction. Rash. Redness. May be harmful if absorbed through skin.                          |
| <b>Eye contact:</b>                                | Burns. Severe eye irritation. Redness. Tissue damage. Corneal edema may give appearance of "blue haze" or "fog" around lights. |
| <b>Ingestion:</b>                                  | May be harmful if swallowed. May cause burns of mouth and throat if swallowed.   |
| <b>Existing conditions aggravated by exposure:</b> | Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.  |

See Section 11 for additional toxicological information.

#### 4. FIRST AID MEASURES

|                            |   |
|----------------------------|---|
| <b>Inhalation:</b>         | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur. |
| <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. Keep individual calm. Get medical attention immediately.  |
| <b>Notes to physician:</b> | None.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flash point:</b>                        | Greater than 93°C (200°F)    Setaflash   |
| <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 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>  | In the event of fire, cool tanks with water spray.   |
| <b>Hazardous combustion products:</b>      | Oxides of carbon. Oxides of nitrogen. Ammonia. Cyanides. Nitrosamines. Nitric acid. Phenolics. Irritating organic fragments. |

#### 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>              | Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. 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 grey                 |
| <b>Odor:</b>                                    | Ammoniacal                |
| <b>Vapor pressure:</b>                          | <1 mmHg @ 20°C (68°F)     |
| <b>pH:</b>                                      | Not applicable            |
| <b>Boiling point/range:</b>                     | 137-293°C (278-560°F)     |
| <b>Melting point/range:</b>                     | Not available             |
| <b>Specific gravity:</b>                        | 1.07                      |
| <b>Vapor density:</b>                           | >1                        |
| <b>Evaporation rate:</b>                        | Slower than butyl acetate |
| <b>Solubility in water:</b>                     | Slightly soluble          |
| <b>Partition coefficient (n-octanol/water):</b> | Not available             |
| <b>VOC content:</b>                             | 0%; 0 grams/liter         |

## 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. Strong mineral acids. Calcium hypochlorite. Sodium hypochlorite. Nitrous acid and other nitrosating agents. Copper. Aluminum. Zinc. Aldehydes. Ketones. Acrylates. Organic halides. Iron. |
| <b>Conditions to avoid:</b>              | Excessive heat. Storage with incompatible materials.   |

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

| Hazardous components   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|--|----------------|-----------------|-----------------|
| Aluminum oxide<br>1344-28-1                                  | No             | No              | No              |
| Amine reacted fatty acid<br>Proprietary                      | No             | No              | No              |
| Nonylphenol<br>25154-52-3                                    | No             | No              | No              |
| Diethylene triamine<br>111-40-0                              | No             | No              | No              |
| Silica, amorphous, fumed,<br>crystalline-free<br>112945-52-5 | No             | No              | No              |
| Epoxy polyamine adduct<br>Unknown                            | No             | No              | No              |
| 4,4'-Isopropylidenediphenol<br>80-05-7                       | No             | No              | No              |
| Triethylenetetramine<br>112-24-3                             | No             | No              | No              |
| N-(2-Aminoethyl)piperazine<br>140-31-8                       | No             | No              | No              |

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

| Hazardous components   | Health Effects/Target Organs                            |
|--|---|
| Aluminum oxide<br>1344-28-1                                  | Corrosive, Irritant, Nuisance dust                      |
| Amine reacted fatty acid<br>Proprietary                      | No Records  |
| Nonylphenol<br>25154-52-3                                    | Allergen, Corrosive, Irritant, Kidney                   |
| Diethylene triamine<br>111-40-0                              | Allergen, Eyes, Irritant                                |
| Silica, amorphous, fumed,<br>crystalline-free<br>112945-52-5 | Nuisance dust   |
| Epoxy polyamine adduct<br>Unknown                            | No data   |
| 4,4'-Isopropylidenediphenol<br>80-05-7                       | Allergen, Blood, Irritant, Kidney, Spleen, Reproductive |
| Triethylenetetramine<br>112-24-3                             | Allergen, Developmental, Irritant, Mutagen, Corrosive   |
| N-(2-Aminoethyl)piperazine<br>140-31-8                       | Irritant, Corrosive, Allergen                           |

## 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.

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

**Proper shipping name:** Corrosive liquid, basic, organic, n.o.s. ( Nonylphenol , diethylenetriamine )

**Hazard class or division:** 8

**Identification number:** UN 3267

**Item No. :** 98742\_363000 / IDH No. 702267

**Product name:** Fixmaster Wear Resistant Putty

**Packing group:** III  
**Exceptions:** (Not more than 4L) Consumer Commodity ORM-D

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

**Proper shipping name:** Corrosive liquid, basic, organic, n.o.s. ( Nonylphenol , Diethylenetriamine )  
**Hazard class or division:** 8  
**Identification number:** UN3267  
**Packing group:** III

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Corrosive liquid, basic, organic, n.o.s. ( Nonylphenol , Diethylenetriamine )  
**Hazard class or division:** 8  
**Identification number:** UN3267  
**Packing group:** III  
**Marine pollutant:** Nonylphenol

**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:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 4,4'-Isopropylidenediphenol (CAS# 80-05-7). Aluminum oxide (CAS# 1344-28-1).

**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

**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: 2, 11, 15

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