# Material Safety Data Sheet

**Revision Number:** 003.1 **Issue date:** 03/31/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **Fixmaster Steel Putty RESIN**
**Product type:** Epoxy resin

**IDH number:** 702303
**Item number:** 99913_10345000
**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.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**HMIS:**

**Physical state:** Paste
**Color:** Gray, White
**Odor:** Slight, Musty

**HEALTH:** *2
**FLAMMABILITY:** 1
**PHYSICAL HAZARD:** 0
**Personal Protection:** See MSDS Section 8

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

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** Mild respiratory tract irritation. May cause irritation to nose and throat. Coughing.
**Skin contact:** May cause allergic skin reaction. Rash. Itching. Moderate skin irritation. Redness.
**Eye contact:** Moderate eye irritation. Redness. Excess tearing.
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

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

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|---|---|---|
| Diiron trioxide | 1309-37-1 | 60 - 100 |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 10 - 30 |
| Calcium carbonate | 471-34-1 | 1 - 5 |
| Hydrogenated castor oil | 8001-78-3 | 1 - 5 |
| Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI) | 17557-23-2 | 1 - 5 |

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.

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

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. If symptoms develop and persist, get medical attention.

## 5. FIRE FIGHTING MEASURES

**Flash point:** > 93 °C (> 199.4 °F) Closed cup

**Autoignition temperature:** Not available

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

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

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

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

**Unusual fire or explosion hazards:** In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of carbon. Irritating organic fragments. Aldehydes.

## 6. ACCIDENTAL RELEASE MEASURES

**Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.**

**Environmental precautions:** Do not allow product to enter sewer or waterways.

**Clean-up methods:** 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

**Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed.

**Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.**

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|---|---|---|---|
| Diiron trioxide | 5 mg/m3 TWA Respirable fraction. | 10 mg/m3 TWA Fume. | None | None |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | None | None | None |
| Calcium carbonate | 10 mg/m3 TWA Total dust. | 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. | None | None |
| Hydrogenated castor oil | None | None | None | None |
| Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI) | None | None | None | None |

**Engineering controls:** Use local exhaust ventilation if the potential for airborne exposure exists.

**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

**Skin protection:** Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical state:** | Paste |
| **Color:** | Gray, White |
| **Odor:** | Slight, Musty |
| **Odor threshold:** | Not available |
| **pH:** | Not available |
| **Vapor pressure:** | Not available |
| **Boiling point/range:** | Not available |
| **Melting point/ range:** | Not available |
| **Specific gravity:** | 2.6 |
| **Vapor density:** | Not available |
| **Flash point:** | > 93 °C (> 199.4 °F) Closed cup |
| **Flammable/Explosive limits - lower:** | Not available |
| **Flammable/Explosive limits - upper:** | Not available |
| **Autoignition temperature:** | Not available |
| **Evaporation rate:** | Not available |
| **Solubility in water:** | Insoluble |
| **Partition coefficient (n-octanol/water):** | Not available |
| **VOC content:** | < 1.0 %; < 10 g/l (value for resin and hardener together) (estimated) |

## 10. STABILITY AND REACTIVITY

**Stability**: Stable

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** None

**Incompatible materials:** Strong acids and strong bases. Strong oxidizing agents.

**Conditions to avoid:** Heat, fumes, sparks and other sources of ignition. Excessive heat. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Diiron trioxide | No | No | No |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No | No | No |
| Calcium carbonate | No | No | No |
| Hydrogenated castor oil | No | No | No |
| Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI) | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---|---|
| Diiron trioxide | Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | Allergen, Irritant |
| Calcium carbonate | Nuisance dust |
| Hydrogenated castor oil | No Target Organs |
| Oxirane, 2,2'-((2,2-dimethyl-1,3-propanediyl)bis(oxymethylene))bis-(9CI) | Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

**Information provided is for unused product only.**

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

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

## 14. TRANSPORT INFORMATION

The shipping classifications in this sections 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:** | Not regulated |
| **Hazard class or division:** | None |
| **Identification number:** | None |
| **Packing group:** | None |

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

| | |
|---|---|
| **Proper shipping name:** | Not regulated |
| **Hazard class or division:** | None |
| **Identification number:** | None |
| **Packing group:** | None |

**Water Transportation (IMO/IMDG)**

| | |
|---|---|
| **Proper shipping name:** | Not regulated |
| **Hazard class or division:** | None |
| **Identification number:** | None |
| **Packing group:** | 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 above reporting de minimus |
| **CERCLA/SARA Section 302 EHS:** | None above reporting de minimus |
| **CERCLA/SARA Section 311/312:** | Immediate Health |
| **CERCLA/SARA 313:** | None above reporting de minimus |
| **California Proposition 65:** | This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |

**Canada Regulatory Information**

| | |
|---|---|
| **CEPA DSL/NDSL Status:** | All components are listed on or are exempt from listing on the Canadian Domestic Substances List. |
| **WHMIS hazard class:** | 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:** Gary Pierson, Sr. Regulatory Affairs Specialist

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