# Material Safety Data Sheet

**Revision Number:** 004.0 **Issue date:** 01/11/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **Loctite(R) Fixmaster(R) Marine**
**Product type:** Epoxy resin

**IDH number:** 702187
**Item number:** 96102_10369000
**Region:** United States

**Company address:**
Henkel Corporation
One Henkel Way
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:** Liquid
**Color:** orange
**Odor:** Mild

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

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

**Potential Health Effects**

**Inhalation:** Mild respiratory tract irritation. Coughing. Vapors and mists will irritate nose and throat and possibly eyes. Dusts from solid adhesive may cause irritation.

**Skin contact:** May cause allergic skin reaction. Itching. Moderate skin irritation. Redness. Contact at elevated temperatures may cause thermal burns.

**Eye contact:** Moderate eye irritation. Redness. Excess tearing. Contact at elevated temperatures may cause thermal burns. May cause eye injury.

**Ingestion:** May be harmful if swallowed. Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. Nausea.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders. Skin allergies. Lung 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 | % |
|---|---|---|
| Quartz (SiO2) | 14808-60-7 | 30 - 60 |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 30 - 60 |

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention. |
| **Eye contact:** | Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. |
| **Ingestion:** | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. |

## 5. FIRE FIGHTING MEASURES

| | |
|---|---|
| **Flash point:** | 204 °C (399.2 °F) Pensky Martens closed cup |
| **Autoignition temperature:** | Not available |
| **Flammable/Explosive limits - lower:** | Not available |
| **Flammable/Explosive limits - upper:** | Not available |
| **Extinguishing media:** | Water spray (fog), foam, dry chemical or carbon dioxide. |
| **Special firefighting procedures:** | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. Caution should be exercised when using water or foam as frothing may occur. |
| **Unusual fire or explosion hazards:** | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |
| **Hazardous combustion products:** | Oxides of carbon. Acids. Irritating organic fragments. Phenolics. Toxic fumes. 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:** | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a closed container until ready for disposal. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Handling:** | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. |
| **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 |
|---|---|---|---|---|
| Quartz (SiO2) | 0.025 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust. | None | None |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None | None | None | None |

**Engineering controls:** Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

**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:** Liquid
**Color:** orange
**Odor:** Mild
**Odor threshold:** Not available
**pH:** Not available
**Vapor pressure:** Not available
**Boiling point/range:** Not available
**Melting point/ range:** Not available
**Specific gravity:** 1.62
**Vapor density:** > 1 (Air = 1)
**Flash point:** 204 °C (399.2 °F) Pensky Martens closed cup
**Flammable/Explosive limits - lower:** Not available
**Flammable/Explosive limits - upper:** Not available
**Autoignition temperature:** Not available
**Evaporation rate:** Less than butyl acetate.
**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:** Oxides of carbon. Hydrocarbons. Phenolics. Aldehydes. Acids. Silicon tetrafluoride.

**Incompatible materials:** Strong oxidizing agents. Combustible materials. Metals. Alkalis. Acids. Water. Strong Lewis acids. Strong mineral acids. Strong bases. Amines. Mercaptans.

**Conditions to avoid:** Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Quartz (SiO2) | Known carcinogen. | Group 1 | No |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---|---|
| Quartz (SiO2) | Immune system, Lung, Some evidence of carcinogenicity |
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | Allergen, Irritant |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

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

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

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

## 14. TRANSPORT INFORMATION

**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:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrine resin)
**Hazard class or division:** 9
**Identification number:** UN 3082
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrine resin)
**Hazard class or division:** 9
**Identification number:** UN 3082
**Packing group:** III
**Marine pollutant:** Bisphenol-A Epichlorhydrine resin

## 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, Delayed 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.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. 2,3,5,8,9,10,11,14 and 15

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