# Safety Data Sheet



Revision Number: 006.0

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# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name:

Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE EA 3478 A known as Loctite(R) Fixmaster(R)Superior Epoxy resin None identified

**IDH number:** 

702242

Item number: 97473 10259000 Region: United States **Contact information:** Telephone: (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

| EMERGENCY OVERVIEW |                                      |  |
|--------------------|--------------------------------------|--|
| WARNING:           | CAUSES SKIN IRRITATION.              |  |
|                    | MAY CAUSE AN ALLERGIC SKIN REACTION. |  |
|                    | CAUSES SERIOUS EYE IRRITATION.       |  |
|                    | MAY CAUSE RESPIRATORY IRRITATION.    |  |

| HAZARD CLASS                                     | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                  | 2               |
| EYE IRRITATION                                   | 2A              |
| SKIN SENSITIZATION                               | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3               |

| PICTOGRAM(S) |  |
|--------------|--|
|              |  |

#### **Precautionary Statements**

| Prevention: | Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Use only<br>outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of<br>the workplace. Wear protective gloves, eye protection, and face protection.  |
|-------------|---|
| Response:   | IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| Storage:    | Store in a well-ventilated place. Keep container tightly closed. Store locked up.   |
| Disposal:   | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.   |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number  | Percentage* |
|------------------------|-------------|-------------|
| Ferrosilicon           | Proprietary | 60 - 100    |
| Epoxy resin            | Proprietary | 30 - 60     |
| Treated fumed silica   | 67762-90-7  | 1 - 5       |
| Substituted silane     | Proprietary | 0.1 - 1     |

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

| 4. FIRST AID MEASURES              |  |  |
|------------------------------------|--|--|
| Inhalation:                        | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |  |
| Skin contact:                      | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |  |
| Eye contact:                       | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.  |  |
| Ingestion:                         | DO NOT induce vomiting unless directed to do so by medical personnel.<br>Never give anything by mouth to an unconscious person. Get medical<br>attention.  |  |
| Symptoms:                          | See Section 11.  |  |
| 5. FIF                             | RE FIGHTING MEASURES   |  |
| 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.   |  |
| 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. Oxides of nitrogen. Formaldehyde. Phenolics. Toxic fumes.<br>Irritating vapors.  |  |

# 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:          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-<br>up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean<br>up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,<br>universal binder, sawdust). Scrape up spilled material and place in a closed<br>container for disposal. |

# 7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed. Refer to Section 8.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Store in original container until ready to 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 Component(s) | ACGIH TLV  | OSHA PEL   | AIHA WEEL | OTHER |
|------------------------|--|--|-----------|-------|
| Ferrosilicon           | None   | None   | None      | None  |
| Epoxy resin            | None   | None   | None      | None  |
| Treated fumed silica   | 10 mg/m3 TWA<br>Inhalable dust.<br>3 mg/m3 TWA<br>Respirable fraction. | 15 mg/m3 TWA Total<br>dust.<br>5 mg/m3 TWA<br>Respirable fraction. | None      | None  |
| Substituted silane     | None   | None   | None      | None  |

Engineering controls:

Respiratory protection:

Eye/face protection:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state:                          | paste   |
|--|---|
| Color:                                   | Gray  |
| Odor:                                    | mild  |
| Odor threshold:                          | Not available.  |
| pH:                                      | Not available.  |
| Vapor pressure:                          | Nil   |
| Boiling point/range:                     | Not available.  |
| Melting point/ range:                    | Not available.  |
| Specific gravity:                        | 1.14  |
| Vapor density:                           | Not available.  |
| Flash point:                             | 204 °C (399.2 °F)   |
| Flammable/Explosive limits - lower:      | Not available.  |
| Flammable/Explosive limits - upper:      | Not available.  |
| Autoignition temperature:                | Not available.  |
| Flammability:                            | Not applicable  |
| Evaporation rate:                        | Not available.  |
| Solubility in water:                     | Slight  |
| Partition coefficient (n-octanol/water): | Not available.  |
| VOC content:                             | 1.0 %; < 10 g/l (value for resin and hardener together) (estimated) |
| Viscosity:                               | Not available.  |
| Decomposition temperature:               | Not available.  |
|  |   |

Product name: LOCTITE EA 3478 A known as Loctite(R) Fixmaster(R)Superior Page 3 of 6

# **10. STABILITY AND REACTIVITY**

| Stability:                           | Stable under normal conditions of storage and use.  |
|--------------------------------------|---|
| Hazardous reactions:                 | Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization. |
| Hazardous decomposition<br>products: | Oxides of carbon. Oxides of nitrogen. Formaldehyde. Phenolics. Toxic fumes. Irritating vapors.                                |
| Incompatible materials:              | Oxidizing agents. Acids. Bases.   |
| Reactivity:                          | Not available.  |
| Conditions to avoid:                 | Keep away from heat, ignition sources and incompatible materials.   |

# **11. TOXICOLOGICAL INFORMATION**

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

Potential Health Effects/Symptoms

| Inhalation:   | May cause respiratory tract irritation.   |
|---------------|---|
| Skin contact: | Causes skin irritation. May cause allergic skin reaction.                       |
| Eye contact:  | Causes serious eye irritation.  |
| Ingestion:    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|-----------------|--------------------------------------|
| Ferrosilicon           | None            | Respiratory                          |
| Epoxy resin            | None            | Allergen, Irritant                   |
| Treated fumed silica   | None            | Irritant                             |
| Substituted silane     | None            | Allergen, Irritant                   |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|------------------------|----------------|-----------------|---|
| Ferrosilicon           | No             | No              | No  |
| Epoxy resin            | No             | No              | No  |
| Treated fumed silica   | No             | No              | No  |
| Substituted silane     | No             | No              | No  |

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

## 13. DISPOSAL CONSIDERATIONS

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

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

Not a RCRA hazardous waste.

### **14. TRANSPORT INFORMATION**

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

| U.S. Department of Transportation Ground (4<br>Proper shipping name:<br>Hazard class or division:<br>Identification number:<br>Packing group: | <b>I9 CFR)</b><br>Not regulated<br>None<br>None<br>None                                |
|---|--|
| International Air Transportation (ICAO/IATA)  |  |
| Proper shipping name:   | Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin 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 Epichlorhydrin resin) |
| Hazard class or division:   | 9  |
| Identification number:  | UN 3082  |
| Packing group:  |  |
| Marine pollutant:   | Bisphenol-A Epichlorhydrin resin   |

## **15. REGULATORY INFORMATION**

#### **United States Regulatory Information**

| TSCA 8 (b) Inventory Status:<br>TSCA 12 (b) Export Notification:                         | All components are listed or are exempt from listing on the Toxic Substances Control Act<br>Inventory.<br>None above reporting de minimis   |
|--|---|
| CERCLA/SARA Section 302 EHS:<br>CERCLA/SARA Section 311/312:<br>CERCLA/SARA Section 313: | None above reporting de minimis.<br>Immediate Health<br>None above reporting de minimis.  |
| 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.   |

### **16. OTHER INFORMATION**

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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