# Safety Data Sheet



Revision Number: 005.0

Issue date: 10/31/2017

# **1. PRODUCT AND COMPANY IDENTIFICATION**

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

LOCTITE 648 RETAIN CMPND 50ML Anaerobic Sealant None identified

IDH number: 1835920 Item number: 1835920 Region: **United States** Contact information: Telephone: +1 (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                   |
|---------|--------------------------------------|
| DANGER: | CAUSES SKIN IRRITATION.              |
|         | MAY CAUSE AN ALLERGIC SKIN REACTION. |
|         | CAUSES SERIOUS EYE DAMAGE.           |
|         | SUSPECTED OF CAUSING CANCER.         |

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| SERIOUS EYE DAMAGE | 1               |
| SKIN SENSITIZATION | 1               |
| CARCINOGENICITY    | 2               |

# PICTOGRAM(S)

#### **Precautionary Statements**

| Prevention:           | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. |
|-----------------------|---|
| Response:             | IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.                         |
| Storage:<br>Disposal: | Store locked up.<br>Dispose of contents and/or container according to Federal, State/Provincial and local   |
|                       | governmental regulations.   |

4 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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).

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)                 | CAS Number | Percentage* |  |
|--|------------|-------------|--|
| Bisphenol A, 2-EO dimethacrylate       | 41637-38-1 | 30 - 40     |  |
| 3,3,5 Trimethylcyclohexyl methacrylate | 7779-31-9  | 10 - 20     |  |
| 2-Hydroxyethyl methacrylate            | 868-77-9   | 10 - 20     |  |
| Bisphenol A fumarate resin             | 39382-25-7 | 10 - 20     |  |
| Polyurethane methacrylate resin        | Unknown    | 5 - 10      |  |
| Acrylic acid                           | 79-10-7    | 1 - 5       |  |
| Epoxy methacrylate                     | Unknown    | 1 - 5       |  |
| Hydroxyalkyl methacrylate              | 27813-02-1 | 1 - 5       |  |
| Cumene hydroperoxide                   | 80-15-9    | 0.1 - 1     |  |
| 1-Acetyl-2-phenylhydrazine             | 114-83-0   | 0.1 - 1     |  |
| Polyglycol dimethacrylate              | 109-16-0   | 0.1 - 1     |  |
| Methacrylic acid                       | 79-41-4    | 0.1 - 1     |  |

\* Exact percentages may vary or are 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. Wash clothing before reuse. Get medic attention. |
| 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. Never give anything by mouth to an unconscious person. Get medical attention.   |
| Symptoms:                          | See Section 11.   |
| 5. F                               | IRE 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: | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.  |
| Hazardous combustion products:     | Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.   |

## 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 cleanup. 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 partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

#### 7. HANDLING AND STORAGE

Handling:

Storage:

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

For safe storage, store between 4 °C (39.2 °F) and 38 °C (100.4 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

## 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                             |
|--|---------------------|----------|----------------------------------|-----------------------------------|
| Bisphenol A, 2-EO dimethacrylate       | None                | None     | None                             | None                              |
| 3,3,5 Trimethylcyclohexyl methacrylate | None                | None     | None                             | None                              |
| 2-Hydroxyethyl methacrylate            | None                | None     | None                             | 3 ppm Ceiling                     |
| Bisphenol A fumarate resin             | None                | None     | None                             | None                              |
| Polyurethane methacrylate resin        | None                | None     | None                             | None                              |
| Acrylic acid                           | 2 ppm TWA<br>(SKIN) | None     | None                             | 1 ppm TWA<br>3 ppm STEL<br>(SKIN) |
| Epoxy methacrylate                     | None                | None     | None                             | None                              |
| Hydroxyalkyl methacrylate              | None                | None     | None                             | 1 ppm TWA<br>3 ppm STEL           |
| Cumene hydroperoxide                   | None                | None     | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None                              |
| 1-Acetyl-2-phenylhydrazine             | None                | None     | None                             | None                              |
| Polyglycol dimethacrylate              | None                | None     | None                             | None                              |
| Methacrylic acid                       | 20 ppm TWA          | None     | None                             | None                              |

Engineering controls:

**Respiratory protection:** 

Eye/face protection:

Skin protection:

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

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

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.

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Liquid Green Characteristic Not available. Not applicable < 5 mm hg (80 °F (26.7 °C)) > 300 °F (> 148.9 °C)None

Not available. 1.01 1.1 Not available. 93.3 °C (199.94 °F) Not available. Not available. Not available. Not available. Slight Not available. < 3 %Not available. Not available. Not available. Not available. Not available. Not available. Not available.

# **10. STABILITY AND REACTIVITY**

| Stability:                           | Stable under normal conditions of storage and use.   |  |
|--------------------------------------|--|--|
| Hazardous reactions:                 | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |  |
| Hazardous decomposition<br>products: | Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.  |  |
| Incompatible materials:              | Strong oxidizing agents. Reducing agents. Free radical initiators.   |  |
| Reactivity:                          | Not available.   |  |
| Conditions to avoid:                 | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.           |  |

# **11. TOXICOLOGICAL INFORMATION**

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

| Inhalation:   | Inhalation of vapors or mists of the product may be irritating to the respiratory system. |
|---------------|---|
| Skin contact: | Causes skin irritation. May cause allergic skin reaction.                                 |
| Eye contact:  | Causes serious eye damage.  |
| Ingestion:    | May cause gastrointestinal tract irritation if swallowed.                                 |

| Hazardous Component(s)                 | LD50s and LC50s  | Immediate and Delayed Health Effects                                  |
|--|--|---|
| Bisphenol A, 2-EO dimethacrylate       | None   | Allergen, Irritant  |
| 3,3,5 Trimethylcyclohexyl methacrylate | None   | No Records  |
| 2-Hydroxyethyl methacrylate            | Oral LD50 (Mouse) = 3,275 mg/kg<br>Oral LD50 (Rat) = 11.2 g/kg<br>Oral LD50 (Rat) = 5,050 mg/kg  | Irritant, Allergen  |
| Bisphenol A fumarate resin             | None   | No Target Organs  |
| Polyurethane methacrylate resin        | None   | Irritant, Allergen  |
| Acrylic acid                           | Oral LD50 (Rat) = 33.5 mg/kg<br>Oral LD50 (Mouse) = 2,400 mg/kg<br>Oral LD50 (Rat) = 2.5 g/kg<br>Oral LD50 (Rat) = 193 mg/kg<br>Oral LD50 (Rat) = 1,250 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 1,200 mg/l   | Allergen, Corrosive, Irritant, Kidney, Liver                          |
| Epoxy methacrylate                     | None   | No Data   |
| Hydroxyalkyl methacrylate None         |  | Irritant, Allergen  |
| Cumene hydroperoxide                   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l Allergen, Central nervous sys  |   |
| 1-Acetyl-2-phenylhydrazine             | Oral LD50 (Mouse) = 270 mg/kg  | Allergen, Blood, Kidney, Mutagen, Some<br>evidence of carcinogenicity |
| Polyglycol dimethacrylate              | None   | Irritant, Allergen  |
| Methacrylic acid                       | Oral LD50 (Mouse) = 1,332 mg/kg<br>Oral LD50 (Mouse) = 1,600 mg/kg<br>Oral LD50 (Mouse) = 1,250 mg/kg<br>Oral LD50 (Rabbit) = 1,200 mg/kg<br>Oral LD50 (Rat) = 1,060 mg/kg<br>Oral LD50 (Rat) = 2,224 mg/kg<br>Dermal LD50 (Rabbit) = 500 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 7.1 mg/l | Corrosive, Irritant, Allergen   |

| Hazardous Component(s)                 | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen          |  |
|--|----------------|-----------------|--------------------------|--|
| nazardous component(s)                 | NTI Carcinogen | And Carcinogen  | (Specifically Regulated) |  |
| Bisphenol A, 2-EO dimethacrylate       | No             | No              | No                       |  |
| 3,3,5 Trimethylcyclohexyl methacrylate | No             | No              | No                       |  |
| 2-Hydroxyethyl methacrylate            | No             | No              | No                       |  |
| Bisphenol A fumarate resin             | No             | No              | No                       |  |
| Polyurethane methacrylate resin        | No             | No              | No                       |  |
| Acrylic acid                           | No             | No              | No                       |  |
| Epoxy methacrylate                     | No             | No              | No                       |  |
| Hydroxyalkyl methacrylate              | No             | No              | No                       |  |
| Cumene hydroperoxide                   | No             | No              | No                       |  |
| 1-Acetyl-2-phenylhydrazine             | No             | No              | No                       |  |
| Polyglycol dimethacrylate              | No             | No              | No                       |  |
| Methacrylic acid                       | 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  | 49 CFR)  |  |  |
|--|--|--|--|
| Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s.  |  |  |  |
| Hazard class or division: 9  |  |  |  |
| Identification number: UN 3082   |  |  |  |
| Packing group:   | III  |  |  |
| DOT Hazardous Substance(s):  | alpha,alpha-Dimethylbenzylhydroperoxide  |  |  |
| International Air Transportation (ICAO/IATA)<br>Proper shipping name:<br>Hazard class or division:<br>Identification number:<br>Packing group: | RQ, Environmentally hazardous substance, liquid, n.o.s.<br>9<br>UN 3082<br>III |  |  |
| Water Transportation (IMO/IMDG)<br>Proper shipping name:<br>Hazard class or division:<br>Identification number:<br>Packing group:              | RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>9<br>UN 3082<br>III |  |  |

**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 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, Delayed Health<br>This product contains the following toxic chemicals subject to the reporting requirements of<br>section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40<br>CFR 372). Acrylic acid (CAS# 79-10-7). |
| CERCLA Reportable quantity:  | Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)   |
| 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:  | One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.   |

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2

#### Prepared by: Product Safety and Regulatory Affairs

Issue date: 10/31/2017

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.