



Revision Number: 005.1

Issue date: 03/13/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |   |                     |               |
|-------------------------------|---|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE LB 8065 COPPER ANTI-SEIZE STICK known as C5-A® Copper Anti-Seize Stick</b> | <b>IDH number:</b>  | 466863        |
| <b>Product type:</b>          | Lubricant   | <b>Item number:</b> | 37229         |
| <b>Restriction of Use:</b>    | None identified   | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>   |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100  |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center  |                     |               |
| Rocky Hill, Connecticut 06067 | 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.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.   |
| <b>Response:</b>   | 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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**

IDH number: 466863

Product name: LOCTITE LB 8065 COPPER ANTI-SEIZE STICK known as C5-A® Copper Anti-Seize Stick

| Hazardous Component(s)                                 | CAS Number | Percentage* |
|--|------------|-------------|
| Copper   | 7440-50-8  | 10 - 20     |
| Graphite   | 7782-42-5  | 10 - 20     |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 10 - 20     |
| Petroleum distillates, hydrotreated, light naphthenic  | 64742-53-6 | 10 - 20     |
| Quartz (SiO <sub>2</sub> )                             | 14808-60-7 | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention. |
| <b>Skin contact:</b> | Wash with soap and water. If symptoms develop and persist, get medical attention.   |
| <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. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention.  |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide. |
| <b>Special firefighting procedures:</b>   | None   |
| <b>Unusual fire or explosion hazards:</b> | None   |
| <b>Hazardous combustion products:</b>     | Oxides of carbon.  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. For large spills absorb onto inert absorbent material and place in sealed container for disposal. For small spills wipe up with paper towel and place in container for disposal. Scrape up as much material as possible. Clean residue with soap and water. |

#### 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling:</b> | Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep container closed. |
| <b>Storage:</b>  | Keep in a cool, well ventilated area.  |

**For information on product shelf life, please review labels on container or check the Technical Data Sheet.**

## 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 |
|--|--|--|-----------|-------|
| Copper   | 0.2 mg/m3 TWA (as Cu) Fume.<br>1 mg/m3 TWA (as Cu) Dust and mist.            | 1 mg/m3 PEL (as Cu) Dust and mist.<br>0.1 mg/m3 PEL (as Cu) Fume.  | None      | None  |
| Graphite   | 2 mg/m3 TWA<br>Respirable fraction.  | 5 mg/m3 PEL<br>Respirable fraction.<br>15 mg/m3 PEL Total dust.<br>15 MPPCF TWA  | None      | None  |
| Distillates (petroleum), hydrotreated heavy naphthenic | 5 mg/m3 TWA<br>Inhalable fraction.<br>5 mg/m3 TWA mist<br>10 mg/m3 STEL mist | 5 mg/m3 TWA mist<br>500 ppm (2,000 mg/m3) PEL<br>5 mg/m3 PEL Mist.   | None      | None  |
| Petroleum distillates, hydrotreated, light naphthenic  | 5 mg/m3 TWA<br>Inhalable fraction.   | 5 mg/m3 PEL Mist.<br>500 ppm (2,000 mg/m3) PEL   | None      | None  |
| Quartz (SiO <sub>2</sub> )                             | 0.025 mg/m3 TWA<br>Respirable fraction.                                      | 2.4 MPPCF TWA<br>Respirable.<br>0.1 mg/m3 TWA<br>Respirable.<br>0.05 mg/m3 TWA (Respirable dust.)<br>(Respirable dust.)<br>0.025 mg/m3 OSHA_ACT (Respirable dust.)<br>0.05 mg/m3 PEL<br>Respirable dust. | None      | None  |

**Engineering controls:**

Use only with adequate ventilation. 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). Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Eye/face protection:**

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

**Skin protection:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |
|--|---|
| <b>Physical state:</b>                     | Solid   |
| <b>Color:</b>                              | Copper  |
| <b>Odor:</b>                               | Mild, Petroleum                                       |
| <b>Odor threshold:</b>                     | Not available.  |
| <b>pH:</b>                                 | Not applicable  |
| <b>Vapor pressure:</b>                     | Not determined  |
| <b>Boiling point/range:</b>                | Not available.  |
| <b>Melting point/ range:</b>               | Not available.  |
| <b>Specific gravity:</b>                   | 1.18  |
| <b>Vapor density:</b>                      | Not determined  |
| <b>Flash point:</b>                        | Product is a solid. Burn Rate: Approx 14 mm/2 minutes |
| <b>Flammable/Explosive limits - lower:</b> | Not determined  |
| <b>Flammable/Explosive limits - upper:</b> | Not determined  |
| <b>Autoignition temperature:</b>           | Not determined  |
| <b>Flammability:</b>                       | Not applicable  |

|   |                |
|---|----------------|
| <b>Evaporation rate:</b>                        | Not determined |
| <b>Solubility in water:</b>                     | Insoluble      |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined |
| <b>VOC content:</b>                             | 0 %            |
| <b>Viscosity:</b>                               | Not available. |
| <b>Decomposition temperature:</b>               | Not available. |

## 10. STABILITY AND REACTIVITY

|  |                              |
|--|------------------------------|
| <b>Stability:</b>                        | Stable at normal conditions. |
| <b>Hazardous reactions:</b>              | Will not occur.              |
| <b>Hazardous decomposition products:</b> | Oxides of carbon.            |
| <b>Incompatible materials:</b>           | Oxidizing agents.            |
| <b>Reactivity:</b>                       | Not available.               |
| <b>Conditions to avoid:</b>              | None known                   |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |
|-------------------------------------|-----------------------------------|

**Potential Health Effects/Symptoms**

**Inhalation:** Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair. This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use. May cause respiratory tract irritation. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

| Hazardous Component(s)                                 | LD50s and LC50s | Immediate and Delayed Health Effects   |
|--|-----------------|--|
| Copper   | None            | Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin |
| Graphite   | None            | Lung   |
| Distillates (petroleum), hydrotreated heavy naphthenic | None            | Irritant   |
| Petroleum distillates, hydrotreated, light naphthenic  | None            | Irritant   |
| Quartz (SiO2)  | None            | Immune system, Lung, Some evidence of carcinogenicity  |

| Hazardous Component(s)                                 | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|-------------------------------|-----------------|--|
| Copper   | No                            | No              | No                                       |
| Graphite   | No                            | No              | No                                       |
| Distillates (petroleum), hydrotreated heavy naphthenic | No                            | No              | No                                       |
| Petroleum distillates, hydrotreated, light naphthenic  | No                            | No              | No                                       |
| Quartz (SiO2)  | Known To Be Human Carcinogen. | Group 1         | Yes                                      |

**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 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 (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:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III  
**Marine pollutant:** Copper

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health  
**CERCLA/SARA Section 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). Copper (CAS# 7440-50-8).  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDL 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.

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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

**Prepared by:** Regulatory Affairs

**Issue date:** 03/13/2017

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Revision Number: 003.0

Issue date: 08/17/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE 680 RETAIN CMPND 10ML</b>           | <b>IDH number:</b>  | 1835205       |
| <b>Product type:</b>          | Anaerobic Adhesive                             | <b>Item number:</b> | 1835205       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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**

|                    |   |
|--------------------|---|
| <b>Prevention:</b> | 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. |
| <b>Response:</b>   | 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.                         |
| <b>Storage:</b>    | Store locked up.  |
| <b>Disposal:</b>   | 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* |
|---|------------|-------------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | 24448-20-2 | 30 - 40     |
| 3,3,5 Trimethylcyclohexyl methacrylate            | 7779-31-9  | 10 - 20     |
| 2-Hydroxyethyl methacrylate                       | 868-77-9   | 10 - 20     |
| Polyurethane methacrylate resin                   | Unknown    | 5 - 10      |
| Acrylic acid                                      | 79-10-7    | 1 - 5       |
| Hydroxyalkyl methacrylate                         | 27813-02-1 | 1 - 5       |
| 1-Acetyl-2-phenylhydrazine                        | 114-83-0   | 0.1 - 1     |
| Methacrylic acid                                  | 79-41-4    | 0.1 - 1     |
| Cumene hydroperoxide                              | 80-15-9    | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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

|                  |   |
|------------------|---|
| <b>Handling:</b> | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Refer to Section 8. |
| <b>Storage:</b>  | For safe storage, store at or below 38 °C (100.4 °F)<br>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                          |
|---|------------------|----------|----------------------------|--------------------------------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None             | None     | None                       | None                           |
| 3,3,5 Trimethylcyclohexyl methacrylate            | None             | None     | None                       | None                           |
| 2-Hydroxyethyl methacrylate                       | None             | None     | None                       | 3 ppm Ceiling                  |
| Polyurethane methacrylate resin                   | None             | None     | None                       | None                           |
| Acrylic acid                                      | 2 ppm TWA (SKIN) | None     | None                       | 1 ppm TWA<br>3 ppm STEL (SKIN) |
| Hydroxyalkyl methacrylate                         | None             | None     | None                       | 1 ppm TWA<br>3 ppm STEL        |
| 1-Acetyl-2-phenylhydrazine                        | None             | None     | None                       | None                           |
| Methacrylic acid                                  | 20 ppm TWA       | None     | None                       | None                           |
| Cumene hydroperoxide                              | None             | None     | 1 ppm (6 mg/m3) TWA (SKIN) | None                           |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.   |
| <b>Respiratory protection:</b> | Use a NIOSH approved air-purifying respirator with an organic vapor cartridge. If this material is handled at elevated temperatures or under mist forming conditions, without engineering controls, a NIOSH approved respirator must be used. |
| <b>Eye/face protection:</b>    | 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.                               |
| <b>Skin protection:</b>        | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                     |
|--|---------------------|
| <b>Physical state:</b>                     | Liquid              |
| <b>Color:</b>                              | Green               |
| <b>Odor:</b>                               | Characteristic      |
| <b>Odor threshold:</b>                     | Not available.      |
| <b>pH:</b>                                 | Not available.      |
| <b>Vapor pressure:</b>                     | Not available.      |
| <b>Boiling point/range:</b>                | Not available.      |
| <b>Melting point/ range:</b>               | Not available.      |
| <b>Specific gravity:</b>                   | 1.1                 |
| <b>Vapor density:</b>                      | Not available.      |
| <b>Flash point:</b>                        | 93.3 °C (199.94 °F) |
| <b>Flammable/Explosive limits - lower:</b> | Not available.      |
| <b>Flammable/Explosive limits - upper:</b> | Not available.      |
| <b>Autoignition temperature:</b>           | Not available.      |

|   |                  |
|---|------------------|
| <b>Flammability:</b>                            | Not applicable   |
| <b>Evaporation rate:</b>                        | Not available.   |
| <b>Solubility in water:</b>                     | Not available.   |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.   |
| <b>VOC content:</b>                             | 0.43 %; 4.74 g/l |
| <b>Viscosity:</b>                               | Not available.   |
| <b>Decomposition temperature:</b>               | Not available.   |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing.  |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours.                                |
| <b>Incompatible materials:</b>           | Peroxides. Free radical initiators. Alkali metals  |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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                               |
|---|--|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None   | Irritant, Allergen   |
| 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   |
| 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                       |
| Hydroxyalkyl methacrylate                         | None   | Irritant, Allergen   |
| 1-Acetyl-2-phenylhydrazine                        | Oral LD50 (Mouse) = 270 mg/kg  | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| 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                                      |
| Cumene hydroperoxide                              | Inhalation LC50 (Mouse, 4 h) = 200 mg/l  | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |

| Hazardous Component(s)                            | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | No             | No              | No                                       |
| 3,3,5 Trimethylcyclohexyl methacrylate            | No             | No              | No                                       |
| 2-Hydroxyethyl methacrylate                       | No             | No              | No                                       |
| Polyurethane methacrylate resin                   | No             | No              | No                                       |
| Acrylic acid                                      | No             | No              | No                                       |
| Hydroxyalkyl methacrylate                         | No             | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine                        | No             | No              | No                                       |
| Methacrylic acid                                  | No             | No              | No                                       |
| Cumene hydroperoxide                              | No             | No              | No                                       |

**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 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 (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)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

## 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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Acrylic acid (CAS# 79-10-7). Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)  
**CERCLA Reportable quantity:**  
**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/NDL 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:** 08/17/2017

**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.



Revision Number: 003.0

Issue date: 08/30/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE 567 TB 50ML EN</b>                  | <b>IDH number:</b>  | 2087067       |
| <b>Product type:</b>          | Anaerobic Sealant                              | <b>Item number:</b> | 2087067       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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, eye protection, and face protection.  |
| <b>Response:</b>   | 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

|  |             |         |
|--|-------------|---------|
| 3,3,5 Trimethylcyclohexyl methacrylate | 7779-31-9   | 20 - 30 |
| Ethene, homopolymer                    | 9002-88-4   | 5 - 10  |
| Ethene, tetrafluoro-, homopolymer      | 9002-84-0   | 5 - 10  |
| Titanium dioxide                       | 13463-67-7  | 1 - 5   |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5   |
| Propane-1,2-diol                       | 57-55-6     | 1 - 5   |
| Cumene hydroperoxide                   | 80-15-9     | 0.1 - 1 |
| Cumene                                 | 98-82-8     | 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

|                      |                 |
|----------------------|-----------------|
| <b>Inhalation:</b>   | Not available.  |
| <b>Skin contact:</b> | Not available.  |
| <b>Eye contact:</b>  | Not available.  |
| <b>Ingestion:</b>    | Not available.  |
| <b>Symptoms:</b>     | See Section 11. |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics. Toxic fluorine compounds. Ketones.  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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

|                  |   |
|------------------|---|
| <b>Handling:</b> | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8. |
| <b>Storage:</b>  | 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  |
|--|--|---|----------------------------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate | None   | None  | None                             | None   |
| Ethene, homopolymer                    | 10 mg/m3 TWA<br>Inhalable particles.<br>3 mg/m3 TWA<br>Respirable particles. | 15 MPPCF TWA<br>Respirable fraction.<br>15 mg/m3 TWA Total<br>dust.<br>50 MPPCF TWA<br>Total dust.<br>5 mg/m3 TWA<br>Respirable fraction.<br>5 mg/m3 PEL<br>Respirable fraction.<br>15 mg/m3 PEL Total<br>dust. | None                             | None   |
| Ethene, tetrafluoro-, homopolymer      | None   | None  | None                             | 10 mg/m3 TWA Total<br>dust.<br>5 mg/m3 TWA<br>Respirable fraction. |
| Titanium dioxide                       | 10 mg/m3 TWA   | 15 mg/m3 PEL Total<br>dust.<br>15 MPPCF TWA<br>Respirable fraction.<br>15 mg/m3 TWA Total<br>dust.<br>50 MPPCF TWA<br>Total dust.<br>5 mg/m3 TWA<br>Respirable fraction.  | None                             | None   |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA<br>Inhalable dust.<br>3 mg/m3 TWA<br>Respirable fraction.       | 20 MPPCF TWA<br>0.8 mg/m3 TWA   | None                             | None   |
| Propane-1,2-diol                       | None   | None  | 10 mg/m3 TWA<br>Aerosol.         | None   |
| Cumene hydroperoxide                   | None   | None  | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None   |
| Cumene                                 | 50 ppm TWA   | 50 ppm (245 mg/m3)<br>PEL<br>(SKIN)   | None                             | None   |

**Engineering controls:**

Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                                |
|---|--------------------------------|
| <b>Physical state:</b>                          | Paste, Liquid                  |
| <b>Color:</b>                                   | Off white                      |
| <b>Odor:</b>                                    | Mild                           |
| <b>Odor threshold:</b>                          | Not available.                 |
| <b>pH:</b>                                      | Not available.                 |
| <b>Vapor pressure:</b>                          | Not available.                 |
| <b>Boiling point/range:</b>                     | > 149 °C (> 300.2 °F)no method |
| <b>Melting point/ range:</b>                    | Not available.                 |
| <b>Specific gravity:</b>                        | 1.15                           |
| <b>Vapor density:</b>                           | Not available.                 |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F)           |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                 |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                 |
| <b>Autoignition temperature:</b>                | Not available.                 |
| <b>Flammability:</b>                            | Not applicable                 |
| <b>Evaporation rate:</b>                        | Not available.                 |
| <b>Solubility in water:</b>                     | Not available.                 |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                 |
| <b>VOC content:</b>                             | 0.13 % (ASTM D5403)            |
| <b>Viscosity:</b>                               | Not available.                 |
| <b>Decomposition temperature:</b>               | Not available.                 |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics. Toxic fluorine compounds. Ketones.                |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Strong reducing agents. Free radical initiators. Inert gases. Oxygen scavengers.                    |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.           |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                 | LD50s and LC50s   | Immediate and Delayed Health Effects                           |
|--|---|--|
| 3,3,5 Trimethylcyclohexyl methacrylate | None  | No Records   |
| Ethene, homopolymer                    | None  | No Target Organs   |
| Ethene, tetrafluoro-, homopolymer      | None  | No Target Organs   |
| Titanium dioxide                       | None  | Irritant, Respiratory, Some evidence of carcinogenicity        |
| Silica, amorphous, fumed, crystal-free | None  | Nuisance dust  |
| Propane-1,2-diol                       | Oral LD50 (Rabbit) = 18 g/kg<br>Oral LD50 (Mouse) = 23.9 g/kg<br>Oral LD50 (Rat) = 30 g/kg            | Irritant   |
| Cumene hydroperoxide                   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Cumene                                 | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                         |

| Hazardous Component(s)                 | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate | No   | No              | No                                       |
| Ethene, homopolymer                    | No   | No              | No                                       |
| Ethene, tetrafluoro-, homopolymer      | No   | No              | No                                       |
| Titanium dioxide                       | No   | Group 2B        | No                                       |
| Silica, amorphous, fumed, crystal-free | No   | No              | No                                       |
| Propane-1,2-diol                       | No   | No              | No                                       |
| Cumene hydroperoxide                   | No   | No              | No                                       |
| Cumene                                 | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (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)**

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**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:** Ethene, tetrafluoro-, homopolymer (CAS# 9002-84-0).  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**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/NDL 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:** Sheila Gines, Regulatory Affairs Specialist

**Issue date:** 08/30/2017

**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.



Revision Number: 008.0

Issue date: 08/21/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** LOCTITE SI 587 HIGH PERFORM RTV SILICONE known as Loctite(R) 587 Blue High Perfo  
**Product type:** Silicone Sealant  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
 Henkel Way One  
 Rocky Hill, Connecticut 06067

**IDH number:** 135504

**Item number:** 58730  
**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**

**WARNING:** MAY CAUSE AN ALLERGIC SKIN REACTION.  
 CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Wash contaminated clothing before reuse.

**Storage:** Not prescribed

**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* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

IDH number: 135504

Product name: LOCTITE SI 587 HIGH PERFORM RTV SILICONE known as Loctite(R) 587 Blue High Perfo

|   |            |         |
|---|------------|---------|
| Limestone                                     | 1317-65-3  | 30 - 40 |
| Amorphous fumed silica                        | 68611-44-9 | 5 - 10  |
| Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime | 2224-33-1  | 1 - 5   |
| Quartz (SiO <sub>2</sub> )                    | 14808-60-7 | 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

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms develop and persist, get medical attention.   |
| <b>Skin contact:</b> | Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.                                 |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If adverse health effects develop seek medical attention. |
| <b>Ingestion:</b>    | Do not induce vomiting. In case of adverse health effects seek medical advice.   |
| <b>Symptoms:</b>     | See Section 11.  |

#### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Prevent inhalation of fumes and gases. Wear self-contained breathing apparatus. |
| <b>Unusual fire or explosion hazards:</b> | Not available.  |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of silicon. Formaldehyde. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Scrape up as much material as possible. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber. |

#### 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling:</b> | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. |
| <b>Storage:</b>  | For safe storage, store at or below 32 °C (89.6 °F)<br>Keep container closed.  |

## 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 |
|---|--------------------------------------|--|-----------|-------|
| Limestone                                     | 10 mg/m3 TWA Total dust.             | 5 mg/m3 PEL Respirable fraction.<br>15 mg/m3 PEL Total dust.   | None      | None  |
| Amorphous fumed silica                        | None                                 | 0.8 mg/m3 TWA<br>20 MPPCF TWA  | None      | None  |
| Butan-2-one O,O',O''-(vinylylylidyne)trioxime | None                                 | None   | None      | None  |
| Quartz (SiO <sub>2</sub> )                    | 0.025 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable.<br>0.1 mg/m3 TWA Respirable.<br>0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.)<br>0.025 mg/m3 OSHA_ACT (Respirable dust.)<br>0.05 mg/m3 PEL Respirable dust. | None      | None  |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.                 |
| <b>Respiratory protection:</b> | Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.  |
| <b>Eye/face protection:</b>    | Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available. |
| <b>Skin protection:</b>        | Use impermeable gloves and protective clothing as necessary to prevent skin contact.                          |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Physical state:</b>                          | Paste                                     |
| <b>Color:</b>                                   | Blue                                      |
| <b>Odor:</b>                                    | Mild, Petroleum                           |
| <b>Odor threshold:</b>                          | Not available.                            |
| <b>pH:</b>                                      | Not applicable                            |
| <b>Vapor pressure:</b>                          | < 5 mm hg (20 °C (68°F))                  |
| <b>Boiling point/range:</b>                     | Not available.                            |
| <b>Melting point/ range:</b>                    | Not available.                            |
| <b>Specific gravity:</b>                        | 1.31 at 20 °C (68°F)                      |
| <b>Vapor density:</b>                           | Not available.                            |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F) Tagliabue closed cup |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                            |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                            |
| <b>Autoignition temperature:</b>                | Not available.                            |
| <b>Flammability:</b>                            | Not applicable                            |
| <b>Evaporation rate:</b>                        | Not available.                            |
| <b>Solubility in water:</b>                     | Polymerises in presence of water.         |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                            |
| <b>VOC content:</b>                             | 3.33 %; 43.09 g/l                         |
| <b>Viscosity:</b>                               | Not available.                            |
| <b>Decomposition temperature:</b>               | Not available.                            |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions.   |
| <b>Hazardous reactions:</b>              | None under normal processing.  |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of silicon. Methyl ethyl ketoxime formed during cure. Formaldehyde. |
| <b>Incompatible materials:</b>           | Oxidizing agents. Acids and bases.   |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Exposure to moisture.  |

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | May cause respiratory tract irritation. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. |
| <b>Skin contact:</b> | May cause skin irritation. May cause allergic skin reaction.   |
| <b>Eye contact:</b>  | Causes serious eye irritation.   |
| <b>Ingestion:</b>    | Not expected under normal conditions of use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

| Hazardous Component(s)                         | LD50s and LC50s | Immediate and Delayed Health Effects                  |
|--|-----------------|---|
| Limestone                                      | None            | Nuisance dust   |
| Amorphous fumed silica                         | None            | No Target Organs                                      |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime | None            | Irritant, Allergen                                    |
| Quartz (SiO <sub>2</sub> )                     | None            | Immune system, Lung, Some evidence of carcinogenicity |

| Hazardous Component(s)                         | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|-------------------------------|-----------------|--|
| Limestone                                      | No                            | No              | No                                       |
| Amorphous fumed silica                         | No                            | No              | No                                       |
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime | No                            | No              | No                                       |
| Quartz (SiO <sub>2</sub> )                     | Known To Be Human Carcinogen. | Group 1         | Yes                                      |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Cured rubber can be incinerated or landfilled following EPA and local regulations. Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** 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 (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  
**Exceptions:** 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 minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** 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/NDL 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: 2, 3, 8, 11

**Prepared by:** Product Safety and Regulatory Affairs  
**Issue date:** 08/21/2017



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Revision Number: 002.0

Issue date: 04/03/2018

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE 518 IND 50ML</b>                    | <b>IDH number:</b>  | 2096064       |
| <b>Product type:</b>          | Anaerobic Adhesive                             | <b>Item number:</b> | 2096064       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.  
SUSPECTED OF CAUSING CANCER.

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

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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.                            |
| <b>Response:</b>   | 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. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | 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* |
|---|-------------|-------------|
| Polyurethane methacrylate resin                     | Unknown     | 50 - 60     |
| 2-Hydroxy-3-phenoxypropyl methacrylate              | 16926-87-7  | 10 - 20     |
| 3,3,5 Trimethylcyclohexyl methacrylate              | 7779-31-9   | 10 - 20     |
| 2-Hydroxyethyl methacrylate                         | 868-77-9    | 5 - 10      |
| Silica, amorphous, fumed, crystal-free              | 112945-52-5 | 5 - 10      |
| Saccharin   | 81-07-2     | 1 - 5       |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid | 20882-04-6  | 0.1 - 1     |
| 1-Acetyl-2-phenylhydrazine                          | 114-83-0    | 0.1 - 1     |
| Acrylic acid oligomers                              | Unknown     | 0.1 - 1     |
| Methacrylic acid                                    | 79-41-4     | 0.1 - 1     |
| Acrylic acid  | 79-10-7     | 0.1 - 1     |
| D-Limonene  | 5989-27-5   | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | 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-up. 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:**

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

**Storage:**

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                             |
|---|--|---|---------------------------------------|-----------------------------------|
| Polyurethane methacrylate resin                     | None   | None                                      | None                                  | None                              |
| 2-Hydroxy-3-phenoxypropyl methacrylate              | None   | None                                      | None                                  | None                              |
| 3,3,5 Trimethylcyclohexyl methacrylate              | None   | None                                      | None                                  | None                              |
| 2-Hydroxyethyl methacrylate                         | None   | None                                      | None                                  | 3 ppm Ceiling                     |
| Silica, amorphous, fumed, crystal-free              | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA | None                                  | None                              |
| Saccharin   | None   | None                                      | None                                  | None                              |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid | None   | None                                      | None                                  | None                              |
| 1-Acetyl-2-phenylhydrazine                          | None   | None                                      | None                                  | None                              |
| Acrylic acid oligomers                              | None   | None                                      | None                                  | None                              |
| Methacrylic acid                                    | 20 ppm TWA   | None                                      | None                                  | None                              |
| Acrylic acid  | 2 ppm TWA<br>(SKIN)  | None                                      | None                                  | 1 ppm TWA<br>3 ppm STEL<br>(SKIN) |
| D-Limonene  | None   | None                                      | 30 ppm (165.5 mg/m <sup>3</sup> ) TWA | None                              |

**Engineering controls:**

Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid, gel-like

**Color:**

Red

**Odor:**

Mild

**Odor threshold:**

Not available.

**pH:**

Not available.

|   |                              |
|---|------------------------------|
| <b>Vapor pressure:</b>                          | Not available.               |
| <b>Boiling point/range:</b>                     | Not available.               |
| <b>Melting point/ range:</b>                    | Not available.               |
| <b>Specific gravity:</b>                        | 1.1                          |
| <b>Vapor density:</b>                           | Not available.               |
| <b>Flash point:</b>                             | > 100 °C (> 212°F) no method |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.               |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.               |
| <b>Autoignition temperature:</b>                | Not available.               |
| <b>Flammability:</b>                            | Not applicable               |
| <b>Evaporation rate:</b>                        | Not available.               |
| <b>Solubility in water:</b>                     | Not available.               |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.               |
| <b>VOC content:</b>                             | Not available.               |
| <b>Viscosity:</b>                               | Not available.               |
| <b>Decomposition temperature:</b>               | Not available.               |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                              | LD50s and LC50s  | Immediate and Delayed Health Effects                               |
|---|--|--|
| Polyurethane methacrylate resin                     | None   | Irritant, Allergen   |
| 2-Hydroxy-3-phenoxypropyl methacrylate              | None   | Irritant, Allergen   |
| 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   |
| Silica, amorphous, fumed, crystal-free              | None   | Nuisance dust  |
| Saccharin   | Oral LD50 (Mouse) = 17 g/kg  | No Target Organs   |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid | None   | No Records   |
| 1-Acetyl-2-phenylhydrazine                          | Oral LD50 (Mouse) = 270 mg/kg  | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Acrylic acid oligomers                              | 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                                      |
| 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                       |
| D-Limonene  | Oral LD50 (Mouse) = 5,600 - 6,600 mg/kg  | Irritant   |

| Hazardous Component(s)                              | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| Polyurethane methacrylate resin                     | No             | No              | No                                       |
| 2-Hydroxy-3-phenoxypropyl methacrylate              | No             | No              | No                                       |
| 3,3,5 Trimethylcyclohexyl methacrylate              | No             | No              | No                                       |
| 2-Hydroxyethyl methacrylate                         | No             | No              | No                                       |
| Silica, amorphous, fumed, crystal-free              | No             | No              | No                                       |
| Saccharin   | No             | No              | No                                       |
| 3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid | No             | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine                          | No             | No              | No                                       |
| Acrylic acid oligomers                              | No             | No              | No                                       |
| Methacrylic acid                                    | No             | No              | No                                       |
| Acrylic acid  | No             | No              | No                                       |
| D-Limonene  | No             | No              | No                                       |

## 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 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 (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 minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health

**CERCLA/SARA Section 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). Saccharin (CAS# 81-07-2).

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

#### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

### 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:** 04/03/2018

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Revision Number: 007.0

Issue date: 10/05/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE 243 THREADLOCKER 50ML</b>           | <b>IDH number:</b>  | 1329467       |
| <b>Product type:</b>          | Threadlocker                                   | <b>Item number:</b> | 1329467       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.  
SUSPECTED OF CAUSING CANCER.

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

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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.                            |
| <b>Response:</b>   | 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. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | 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* |
|-------------------------------|------------|-------------|
| Tetramethylene dimethacrylate | 2082-81-7  | 20 - 30     |
| Amorphous fumed silica        | 68611-44-9 | 1 - 5       |
| Ethene, homopolymer           | 9002-88-4  | 1 - 5       |
| Propane-1,2-diol              | 57-55-6    | 1 - 5       |
| Cumene hydroperoxide          | 80-15-9    | 0.1 - 1     |
| 1-Acetyl-2-phenylhydrazine    | 114-83-0   | 0.1 - 1     |
| Cumene                        | 98-82-8    | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                      |
| <b>Skin contact:</b> | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic fragments.  |

### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. |

## 7. HANDLING AND STORAGE

- Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Refer to Section 8.
- Storage:** For safe storage, store at or below 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 |
|-------------------------------|--|---|---|-------|
| Tetramethylene dimethacrylate | None   | None  | None  | None  |
| Amorphous fumed silica        | None   | 0.8 mg/m <sup>3</sup> TWA<br>20 MPPCF TWA   | None  | None  |
| Ethene, homopolymer           | 10 mg/m <sup>3</sup> TWA<br>Inhalable particles.<br>3 mg/m <sup>3</sup> TWA<br>Respirable particles. | 15 MPPCF TWA<br>Respirable fraction.<br>15 mg/m <sup>3</sup> TWA Total<br>dust.<br>50 MPPCF TWA<br>Total dust.<br>5 mg/m <sup>3</sup> TWA<br>Respirable fraction.<br>5 mg/m <sup>3</sup> PEL<br>Respirable fraction.<br>15 mg/m <sup>3</sup> PEL Total<br>dust. | None  | None  |
| Propane-1,2-diol              | None   | None  | 10 mg/m <sup>3</sup> TWA<br>Aerosol.          | None  |
| Cumene hydroperoxide          | None   | None  | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None  |
| 1-Acetyl-2-phenylhydrazine    | None   | None  | None  | None  |
| Cumene                        | 50 ppm TWA   | 50 ppm (245 mg/m <sup>3</sup> )<br>PEL<br>(SKIN)  | None  | None  |

- Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Butyl rubber gloves. Neoprene gloves. Natural rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** LiquidLiquid
- Color:** BlueBlue
- Odor:** CharacteristicCharacteristic
- Odor threshold:** Not available.
- pH:** Not available.
- Vapor pressure:** < 0.1 mm hg (27 °C (80.6 °F))
- Boiling point/range:** > 149 °C (> 300.2 °F)

|   |                      |
|---|----------------------|
| <b>Melting point/ range:</b>                    | Not available.       |
| <b>Specific gravity:</b>                        | 1.09                 |
| <b>Vapor density:</b>                           | Not available.       |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F) |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.       |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.       |
| <b>Autoignition temperature:</b>                | Not available.       |
| <b>Flammability:</b>                            | Not applicable       |
| <b>Evaporation rate:</b>                        | Not available.       |
| <b>Solubility in water:</b>                     | Slight               |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.       |
| <b>VOC content:</b>                             | 1.09 %; 11.88 g/l    |
| <b>Viscosity:</b>                               | Not available.       |
| <b>Decomposition temperature:</b>               | Not available.       |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)        | LD50s and LC50s   | Immediate and Delayed Health Effects                               |
|-------------------------------|---|--|
| Tetramethylene dimethacrylate | None  | Irritant, Allergen   |
| Amorphous fumed silica        | None  | No Target Organs   |
| Ethene, homopolymer           | None  | No Target Organs   |
| Propane-1,2-diol              | Oral LD50 (Rabbit) = 18 g/kg<br>Oral LD50 (Mouse) = 23.9 g/kg<br>Oral LD50 (Rat) = 30 g/kg            | Irritant   |
| Cumene hydroperoxide          | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |
| 1-Acetyl-2-phenylhydrazine    | Oral LD50 (Mouse) = 270 mg/kg   | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Cumene                        | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                             |

| Hazardous Component(s)        | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-------------------------------|--|-----------------|--|
| Tetramethylene dimethacrylate | No   | No              | No                                       |
| Amorphous fumed silica        | No   | No              | No                                       |
| Ethene, homopolymer           | No   | No              | No                                       |
| Propane-1,2-diol              | No   | No              | No                                       |
| Cumene hydroperoxide          | No   | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine    | No   | No              | No                                       |
| Cumene                        | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (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)**

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s. (Fatty acid amide)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Fatty acid amide

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**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/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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

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

**Issue date:** 10/05/2017

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Revision Number: 003.1

Issue date: 01/18/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                            |  |                             |   |
|----------------------------|--|-----------------------------|---|
| <b>Product name:</b>       | <b>LOCTITE 5671 MED. STRENGTH<br/>THREAD LOCKER known as<br/>LOCTITE® Quickstix™ 5671™</b> | <b>IDH number:</b>          | 1276167   |
| <b>Product type:</b>       | Anaerobic Sealant  | <b>Item number:</b>         | 1276167   |
| <b>Restriction of Use:</b> | None identified  | <b>Region:</b>              | United States   |
| <b>Company address:</b>    | Henkel Corporation<br>Henkel Way One<br>Rocky Hill, Connecticut 06067                      | <b>Contact information:</b> | Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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, eye protection, and face protection.  |
| <b>Response:</b>   | 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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**

IDH number: 1276167

Product name: LOCTITE 5671 MED. STRENGTH THREAD LOCKER known as LOCTITE® Quickstix™ 5671™

| Hazardous Component(s)                            | CAS Number  | Percentage* |
|---|-------------|-------------|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | 24448-20-2  | 50 - 60     |
| Polyglycol dimethacrylate                         | 25852-47-5  | 10 - 20     |
| Ethene, tetrafluoro-, homopolymer                 | 9002-84-0   | 5 - 10      |
| Hydroxyalkyl methacrylate                         | 27813-02-1  | 5 - 10      |
| Cumene hydroperoxide                              | 80-15-9     | 1 - 5       |
| Silica, amorphous, fumed, crystal-free            | 112945-52-5 | 1 - 5       |
| Ethylene glycol                                   | 107-21-1    | 0.1 - 1     |
| 1-Acetyl-2-phenylhydrazine                        | 114-83-0    | 0.1 - 1     |
| Cumene  | 98-82-8     | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of nitrogen. Irritating organic vapours. Toxic fluorine compounds.  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:** For safe storage, store at or below 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  |
|---|--|--|---|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None   | None                                       | None                                    | None   |
| Polyglycol dimethacrylate                         | None   | None                                       | None                                    | None   |
| Ethene, tetrafluoro-, homopolymer                 | None   | None                                       | None                                    | 10 mg/m <sup>3</sup> TWA Total dust.<br>5 mg/m <sup>3</sup> TWA Respirable fraction. |
| Hydroxyalkyl methacrylate                         | None   | None                                       | None                                    | 1 ppm TWA<br>3 ppm STEL  |
| Cumene hydroperoxide                              | None   | None                                       | 1 ppm (6 mg/m <sup>3</sup> ) TWA (SKIN) | None   |
| Silica, amorphous, fumed, crystal-free            | 10 mg/m <sup>3</sup> TWA Inhalable dust.<br>3 mg/m <sup>3</sup> TWA Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA  | None                                    | None   |
| Ethylene glycol                                   | 100 mg/m <sup>3</sup> Ceiling Aerosol.   | None                                       | None                                    | None   |
| 1-Acetyl-2-phenylhydrazine                        | None   | None                                       | None                                    | None   |
| Cumene  | 50 ppm TWA   | 50 ppm (245 mg/m <sup>3</sup> ) PEL (SKIN) | None                                    | None   |
| Methacrylic acid                                  | 20 ppm TWA   | None                                       | None                                    | None   |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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:** Solid, Gel  
**Color:** Off white  
**Odor:** Mild  
**Odor threshold:** Not available.  
**pH:** Not available.  
**Vapor pressure:** < 10 mm hg (27 °C (80.6 °F))  
**Boiling point/range:** > 149 °C (> 300.2 °F)  
**Melting point/ range:** Not available.

|   |                     |
|---|---------------------|
| <b>Specific gravity:</b>                        | 1.0274              |
| <b>Vapor density:</b>                           | Not available.      |
| <b>Flash point:</b>                             | Product is a solid. |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.      |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.      |
| <b>Autoignition temperature:</b>                | Not available.      |
| <b>Flammability:</b>                            | Not applicable      |
| <b>Evaporation rate:</b>                        | Not available.      |
| <b>Solubility in water:</b>                     | Slight              |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.      |
| <b>VOC content:</b>                             | 2.36 %; 24.25 g/l   |
| <b>Viscosity:</b>                               | Not available.      |
| <b>Decomposition temperature:</b>               | Not available.      |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                            | LD50s and LC50s  | Immediate and Delayed Health Effects  |
|---|--|---|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | None   | Irritant, Allergen  |
| Polyglycol dimethacrylate                         | None   | Allergen, Irritant  |
| Ethene, tetrafluoro-, homopolymer                 | None   | No Target Organs  |
| Hydroxyalkyl methacrylate                         | None   | Irritant, Allergen  |
| Cumene hydroperoxide                              | Inhalation LC50 (Mouse, 4 h) = 200 mg/l  | Allergen, Central nervous system, Corrosive, Irritant, Mutagen                                      |
| Silica, amorphous, fumed, crystal-free            | None   | Nuisance dust   |
| Ethylene glycol                                   | Oral LD50 (Rat) = 5.89 g/kg<br>Oral LD50 (Mouse) = 14.6 g/kg<br>Dermal LD50 (Rabbit) = 9,530 mg/kg   | Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic |
| 1-Acetyl-2-phenylhydrazine                        | Oral LD50 (Mouse) = 270 mg/kg  | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity                                  |
| Cumene  | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm  | Central nervous system, Irritant, Lung  |
| 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 (Specifically Regulated) |
|---|--|-----------------|--|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene) | No   | No              | No                                       |
| Polyglycol dimethacrylate                         | No   | No              | No                                       |
| Ethene, tetrafluoro-, homopolymer                 | No   | No              | No                                       |
| Hydroxyalkyl methacrylate                         | No   | No              | No                                       |
| Cumene hydroperoxide                              | No   | No              | No                                       |
| Silica, amorphous, fumed, crystal-free            | No   | No              | No                                       |
| Ethylene glycol                                   | No   | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine                        | No   | No              | No                                       |
| Cumene  | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | 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:** Follow all local, state, federal and provincial regulations for disposal.  
**Hazardous waste number:** 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 (49 CFR)

**Proper shipping name:** RQ, Environmentally hazardous substances, solid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III  
**DOT Hazardous Substance(s):** alpha,alpha-Dimethylbenzylhydroperoxide

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** RQ, Environmentally hazardous substance, solid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III

## 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:** Ethene, tetrafluoro-, homopolymer (CAS# 9002-84-0).  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9).  
**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/NDL 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: Reviewed SDS. Reissued with new date.

**Prepared by:** Sheila Gines, Regulatory Affairs Specialist

**Issue date:** 01/18/2017

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Revision Number: 001.1

Issue date: 06/17/2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE® 5452™ THREAD SEALANT</b>           | <b>IDH number:</b>  | 1265769       |
| <b>Product type:</b>          | Sealant  | <b>Item number:</b> | 1265769       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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, eye protection, and face protection.  |
| <b>Response:</b>   | 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

|  |             |         |
|--|-------------|---------|
| Glyceryl ester                         | Proprietary | 30 - 60 |
| Polyglycol dimethacrylate              | Proprietary | 10 - 30 |
| Dimethacrylate ester                   | Proprietary | 10 - 30 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5   |
| Saccharin                              | 81-07-2     | 1 - 5   |
| Cumene hydroperoxide                   | 80-15-9     | 1 - 5   |
| Cumene                                 | 98-82-8     | 0.1 - 1 |

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

#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon, oxides of nitrogen, irritating organic vapors. Sulphur oxides  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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

|                  |   |
|------------------|---|
| <b>Handling:</b> | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8. |
| <b>Storage:</b>  | 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 |
|--|--|--|---|-------|
| Glyceryl ester                         | None   | None   | None  | None  |
| Polyglycol dimethacrylate              | None   | None   | None  | None  |
| Dimethacrylate ester                   | None   | None   | None  | None  |
| Silica, amorphous, fumed, crystal-free | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA        | None  | None  |
| Saccharin                              | None   | None   | None  | None  |
| Cumene hydroperoxide                   | None   | None   | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None  |
| Cumene                                 | 50 ppm TWA   | 50 ppm (245 mg/m <sup>3</sup> )<br>PEL<br>(SKIN) | None  | None  |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.   |
| <b>Respiratory protection:</b> | Use NIOSH approved respirator if there is potential to exceed exposure limit(s).  |
| <b>Eye/face protection:</b>    | 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. |
| <b>Skin protection:</b>        | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Neoprene gloves.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Physical state:</b>                          | Liquid  |
| <b>Color:</b>                                   | Purple  |
| <b>Odor:</b>                                    | Mild  |
| <b>Odor threshold:</b>                          | Not available.                                      |
| <b>pH:</b>                                      | Not available.                                      |
| <b>Vapor pressure:</b>                          | Not available.                                      |
| <b>Boiling point/range:</b>                     | Not available.                                      |
| <b>Melting point/ range:</b>                    | Not available.                                      |
| <b>Specific gravity:</b>                        | 1.15  |
| <b>Vapor density:</b>                           | Not available.                                      |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F) ASTM D3278 Setflash Closed Cup |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                                      |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                                      |
| <b>Autoignition temperature:</b>                | Not available.                                      |
| <b>Flammability:</b>                            | Not applicable                                      |
| <b>Evaporation rate:</b>                        | Not available.                                      |
| <b>Solubility in water:</b>                     | Not available.                                      |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                                      |



**VOC content:** 0.24 % (ASTM D5403)  
**Viscosity:** Not available.  
**Decomposition temperature:** 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 products:** Oxides of carbon. Oxides of nitrogen. Sulphur oxides Irritating organic vapours.

**Incompatible materials:** Strong oxidizing agents. Reducing agents. Metal compounds. Acids. Alkalis. Free radical initiators. Inert gases. Oxygen scavengers.

**Reactivity:** Not available.

**Conditions to avoid:** Extremes of temperature and direct sunlight. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. UV light.

## 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                 | LD50s and LC50s   | Immediate and Delayed Health Effects                           |
|--|---|--|
| Glyceryl ester                         | Oral LD50 (Rat) = 3,000 mg/kg<br>Dermal LD50 (Rabbit) = > 5 g/kg<br>Inhalation LC50 (Rat, 4 h) = > 1.721 mg/l | Irritant   |
| Polyglycol dimethacrylate              | None  | Allergen, Irritant   |
| Dimethacrylate ester                   | None  | Irritant, Allergen   |
| Silica, amorphous, fumed, crystal-free | None  | Nuisance dust  |
| Saccharin                              | Oral LD50 (Mouse) = 17 g/kg   | No Target Organs   |
| Cumene hydroperoxide                   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Cumene                                 | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm         | Central nervous system, Irritant, Lung                         |

| Hazardous Component(s)                 | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| Glyceryl ester                         | No   | No              | No                                       |
| Polyglycol dimethacrylate              | No   | No              | No                                       |
| Dimethacrylate ester                   | No   | No              | No                                       |
| Silica, amorphous, fumed, crystal-free | No   | No              | No                                       |
| Saccharin                              | No   | No              | No                                       |
| Cumene hydroperoxide                   | No   | No              | No                                       |
| Cumene                                 | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (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)

Proper shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s.  
Hazard class or division: 9  
Identification number: UN 3082  
Packing group: III

### Water Transportation (IMO/IMDG)

Proper shipping name: RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard class or division: 9  
Identification number: UN 3082  
Packing group: III

## 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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 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). Saccharin (CAS# 81-07-2). Cumene hydroperoxide (CAS# 80-15-9).

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/NDL 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.

**Prepared by:** Sheila Gines, Regulatory Affairs Specialist

**Issue date:** 06/17/2016

**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.



Revision Number: 006.0

Issue date: 11/08/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>660 Quick Metal® Retaining Compound</b>     | <b>IDH number:</b>  | 135527        |
| <b>Product type:</b>          | Anaerobic Adhesive                             | <b>Item number:</b> | 66040         |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.  
 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.  
 SUSPECTED OF CAUSING CANCER.  
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                    | 2               |
| SERIOUS EYE DAMAGE                                 | 1               |
| RESPIRATORY SENSITIZATION                          | 1               |
| SKIN SENSITIZATION                                 | 1               |
| CARCINOGENICITY                                    | 2               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe 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. In case of inadequate ventilation wear respiratory protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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:** Store locked up.

**Disposal:** 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).

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)   | CAS Number  | Percentage* |
|--|-------------|-------------|
| Bisphenol A, 2-EO dimethacrylate                                       | 41637-38-1  | 30 - 40     |
| Hydroxyalkyl methacrylate  | 27813-02-1  | 30 - 40     |
| Silica, amorphous, fumed, crystal-free                                 | 112945-52-5 | 5 - 10      |
| Cumene hydroperoxide   | 80-15-9     | 1 - 5       |
| 2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene | 26762-29-8  | 0.1 - 1     |
| Methacrylic acid   | 79-41-4     | 0.1 - 1     |
| Cumene   | 98-82-8     | 0.1 - 1     |
| 1-Acetyl-2-phenylhydrazine   | 114-83-0    | 0.1 - 1     |
| Titanium dioxide   | 13463-67-7  | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                      |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |

**Hazardous combustion products:**

Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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 clean-up. 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:**

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

**Storage:**

For safe storage, store at or below 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                    |
| Hydroxyalkyl methacrylate  | None   | None   | None                             | 1 ppm TWA<br>3 ppm STEL |
| Silica, amorphous, fumed, crystal-free                                 | 10 mg/m3 TWA<br>Inhalable dust.<br>3 mg/m3 TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m3 TWA  | None                             | None                    |
| Cumene hydroperoxide   | None   | None   | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None                    |
| 2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene | None   | None   | None                             | None                    |
| Methacrylic acid   | 20 ppm TWA   | None   | None                             | None                    |
| Cumene   | 50 ppm TWA   | 50 ppm (245 mg/m3)<br>PEL<br>(SKIN)  | None                             | None                    |
| 1-Acetyl-2-phenylhydrazine   | None   | None   | None                             | None                    |
| Titanium dioxide   | 10 mg/m3 TWA   | 15 mg/m3 PEL Total dust.<br>15 MPPCF TWA<br>Respirable fraction.<br>15 mg/m3 TWA Total dust.<br>50 MPPCF TWA<br>Total dust.<br>5 mg/m3 TWA<br>Respirable fraction. | None                             | None                    |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.   |
| <b>Respiratory protection:</b> | Use NIOSH approved respirator if there is potential to exceed exposure limit(s).  |
| <b>Eye/face protection:</b>    | 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. |
| <b>Skin protection:</b>        | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Butyl rubber gloves. Neoprene gloves. Natural rubber gloves.                            |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Physical state:</b>                          | Paste, Liquid                             |
| <b>Color:</b>                                   | Silver                                    |
| <b>Odor:</b>                                    | Mild                                      |
| <b>Odor threshold:</b>                          | Not available.                            |
| <b>pH:</b>                                      | Not applicable                            |
| <b>Vapor pressure:</b>                          | < 5 mm hg (27 °C (80.6 °F))               |
| <b>Boiling point/range:</b>                     | > 149 °C (> 300.2 °F)                     |
| <b>Melting point/ range:</b>                    | Not available.                            |
| <b>Specific gravity:</b>                        | 1.1                                       |
| <b>Vapor density:</b>                           | Not available.                            |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F) Tagliabue closed cup |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                            |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                            |
| <b>Autoignition temperature:</b>                | Not available.                            |
| <b>Flammability:</b>                            | Not applicable                            |
| <b>Evaporation rate:</b>                        | Not available.                            |
| <b>Solubility in water:</b>                     | Slight                                    |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                            |
| <b>VOC content:</b>                             | 1.16 %; 12.75 g/l                         |
| <b>Viscosity:</b>                               | Not available.                            |
| <b>Decomposition temperature:</b>               | Not available.                            |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |
|-------------------------------------|-----------------------------------|

### Potential Health Effects/Symptoms

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | May cause allergic respiratory reaction. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Inhalation of vapors or mists of the product may be irritating to the respiratory system. |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction.  |
| <b>Eye contact:</b>  | Causes serious eye damage.   |
| <b>Ingestion:</b>    | May cause gastrointestinal disturbances.   |

| Hazardous Component(s)   | LD50s and LC50s  | Immediate and Delayed Health Effects                               |
|--|--|--|
| Bisphenol A, 2-EO dimethacrylate                                       | None   | Allergen, Irritant   |
| Hydroxyalkyl methacrylate  | None   | Irritant, Allergen   |
| Silica, amorphous, fumed, crystal-free                                 | None   | Nuisance dust  |
| Cumene hydroperoxide   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l  | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |
| 2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene | None   | Irritant, Allergen, Respiratory, Corrosive, Eyes                   |
| 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                                      |
| Cumene   | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm  | Central nervous system, Irritant, Lung                             |
| 1-Acetyl-2-phenylhydrazine   | Oral LD50 (Mouse) = 270 mg/kg  | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Titanium dioxide   | None   | Irritant, Respiratory, Some evidence of carcinogenicity            |

| Hazardous Component(s)   | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| Bisphenol A, 2-EO dimethacrylate                                       | No   | No              | No                                       |
| Hydroxyalkyl methacrylate  | No   | No              | No                                       |
| Silica, amorphous, fumed, crystal-free                                 | No   | No              | No                                       |
| Cumene hydroperoxide   | No   | No              | No                                       |
| 2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene | No   | No              | No                                       |
| Methacrylic acid   | No   | No              | No                                       |
| Cumene   | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |
| 1-Acetyl-2-phenylhydrazine   | No   | No              | No                                       |
| Titanium dioxide   | No   | Group 2B        | No                                       |

## 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 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 (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)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

## 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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9).  
**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:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3

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

**Issue date:** 11/08/2017

**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.



Revision Number: 007.0

Issue date: 01/19/2018

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |   |                     |               |
|-------------------------------|---|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE 222MS known as LOCTITE SMALL SCRW TL 222</b> | <b>IDH number:</b>  | 135333        |
| <b>Product type:</b>          | Anaerobic Sealant                                       | <b>Item number:</b> | 22221         |
| <b>Restriction of Use:</b>    | None identified   | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                             |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                            |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center          |                     |               |
| Rocky Hill, Connecticut 06067 | 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 AND EYE IRRITATION. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                    | 2               |
| EYE IRRITATION                                     | 2B              |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Wear protective gloves.   |
| <b>Response:</b>   | 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. Get medical attention if you feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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* |
|------------------------|------------|-------------|
|------------------------|------------|-------------|

|  |             |         |
|--|-------------|---------|
| Oleic acid 5.5EO                       | 9004-96-0   | 30 - 40 |
| Saccharin                              | 81-07-2     | 1 - 5   |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5   |
| Cumene hydroperoxide                   | 80-15-9     | 1 - 5   |
| Propane-1,2-diol                       | 57-55-6     | 1 - 5   |
| Cumene                                 | 98-82-8     | 0.1 - 1 |
| Titanium dioxide                       | 13463-67-7  | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:** For safe storage, store at or below 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 |
|--|--|--|---|-------|
| Oleic acid 5.5EO                       | None   | None   | None  | None  |
| Saccharin                              | None   | None   | None  | None  |
| Silica, amorphous, fumed, crystal-free | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA  | None  | None  |
| Cumene hydroperoxide                   | None   | None   | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None  |
| Propane-1,2-diol                       | None   | None   | 10 mg/m <sup>3</sup> TWA<br>Aerosol.          | None  |
| Cumene                                 | 50 ppm TWA   | 50 ppm (245 mg/m <sup>3</sup> )<br>PEL<br>(SKIN)   | None  | None  |
| Titanium dioxide                       | 10 mg/m <sup>3</sup> TWA   | 15 mg/m <sup>3</sup> PEL Total<br>dust.<br>15 MPPCF TWA<br>Respirable fraction.<br>15 mg/m <sup>3</sup> TWA Total<br>dust.<br>50 MPPCF TWA<br>Total dust.<br>5 mg/m <sup>3</sup> TWA<br>Respirable fraction. | None  | None  |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Physical state:</b>      | Liquid                      |
| <b>Color:</b>               | Purple                      |
| <b>Odor:</b>                | Mild                        |
| <b>Odor threshold:</b>      | Not available.              |
| <b>pH:</b>                  | Not applicable              |
| <b>Vapor pressure:</b>      | < 5 mm hg (27 °C (80.6 °F)) |
| <b>Boiling point/range:</b> | > 149 °C (> 300.2 °F)       |

|   |   |
|---|---|
| <b>Melting point/ range:</b>                    | Not available.  |
| <b>Specific gravity:</b>                        | 1.05  |
| <b>Vapor density:</b>                           | Not available.  |
| <b>Flash point:</b>                             | > 93.3 °C (> 199.94 °F) Tagliabue closed cup                      |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.  |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.  |
| <b>Autoignition temperature:</b>                | Not available.  |
| <b>Flammability:</b>                            | Not applicable  |
| <b>Evaporation rate:</b>                        | Not available.  |
| <b>Solubility in water:</b>                     | Slight  |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.  |
| <b>VOC content:</b>                             | 0.19 %; 1.79 g/l Method 40 CFR Part 63 Appendix A to Subpart PPPP |
| <b>Viscosity:</b>                               | Not available.  |
| <b>Decomposition temperature:</b>               | Not available.  |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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.  
**Eye contact:** Causes eye irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                 | LD50s and LC50s   | Immediate and Delayed Health Effects                           |
|--|---|--|
| Oleic acid 5.5EO                       | None  | Irritant   |
| Saccharin                              | Oral LD50 (Mouse) = 17 g/kg   | No Target Organs   |
| Silica, amorphous, fumed, crystal-free | None  | Nuisance dust  |
| Cumene hydroperoxide                   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Propane-1,2-diol                       | Oral LD50 (Rabbit) = 18 g/kg<br>Oral LD50 (Mouse) = 23.9 g/kg<br>Oral LD50 (Rat) = 30 g/kg            | Irritant   |
| Cumene                                 | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                         |
| Titanium dioxide                       | None  | Irritant, Respiratory, Some evidence of carcinogenicity        |

| Hazardous Component(s)                 | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| Oleic acid 5.5EO                       | No   | No              | No                                       |
| Saccharin                              | No   | No              | No                                       |
| Silica, amorphous, fumed, crystal-free | No   | No              | No                                       |
| Cumene hydroperoxide                   | No   | No              | No                                       |
| Propane-1,2-diol                       | No   | No              | No                                       |
| Cumene                                 | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |
| Titanium dioxide                       | No   | Group 2B        | No                                       |

## 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 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 (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)**

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Additional information:** IMDG-Code: Segregation group 1- Acids

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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 minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Saccharin (CAS# 81-07-2). Cumene hydroperoxide (CAS# 80-15-9).  
**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:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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

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

**Issue date:** 01/19/2018

**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.





Revision Number: 005.0

Issue date: 10/31/2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                            |   |                             |   |
|----------------------------|---|-----------------------------|---|
| <b>Product name:</b>       | <b>LOCTITE SF 7088 KNOWN AS<br/>LOCTITE ANAEROBIC PRIME STK</b>       | <b>IDH number:</b>          | 1069258   |
| <b>Product type:</b>       | Anaerobic   | <b>Item number:</b>         | 1069258   |
| <b>Restriction of Use:</b> | None identified   | <b>Region:</b>              | United States   |
| <b>Company address:</b>    | Henkel Corporation<br>Henkel Way One<br>Rocky Hill, Connecticut 06067 | <b>Contact information:</b> | Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS          | HAZARD CATEGORY |
|-----------------------|-----------------|
| SKIN IRRITATION       | 2               |
| EYE IRRITATION        | 2A              |
| SKIN SENSITIZATION    | 1               |
| REPRODUCTIVE TOXICITY | 2               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or fumes. 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.                                     |
| <b>Response:</b>   | 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. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | 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* |
|---------------------------|-------------|-------------|
| Hydroxyalkyl methacrylate | 27813-02-1  | 60 - 100    |
| 2-Ethylhexanoic acid      | 149-57-5    | 1 - 5       |
| Methacrylic acid          | 79-41-4     | 1 - 5       |
| Amine                     | Proprietary | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                      |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of nitrogen. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Wear appropriate personal protective equipment. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:** For safe storage, store at or below 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.

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                   |
|---------------------------|--|----------|-----------|-------------------------|
| Hydroxyalkyl methacrylate | None   | None     | None      | 1 ppm TWA<br>3 ppm STEL |
| 2-Ethylhexanoic acid      | 5 mg/m <sup>3</sup> TWA<br>Inhalable fraction and vapor. | None     | None      | None                    |
| Methacrylic acid          | 20 ppm TWA   | None     | None      | None                    |
| Amine                     | None   | None     | None      | None                    |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                     |
|---|---------------------|
| <b>Physical state:</b>                          | Solid, Gel          |
| <b>Color:</b>                                   | Light blue          |
| <b>Odor:</b>                                    | Mild                |
| <b>Odor threshold:</b>                          | Not available.      |
| <b>pH:</b>                                      | Not applicable      |
| <b>Vapor pressure:</b>                          | Not available.      |
| <b>Boiling point/range:</b>                     | Not available.      |
| <b>Melting point/ range:</b>                    | Not available.      |
| <b>Specific gravity:</b>                        | 1.0357              |
| <b>Vapor density:</b>                           | Not available.      |
| <b>Flash point:</b>                             | Product is a solid. |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.      |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.      |
| <b>Autoignition temperature:</b>                | Not available.      |
| <b>Flammability:</b>                            | Not applicable      |
| <b>Evaporation rate:</b>                        | Not available.      |
| <b>Solubility in water:</b>                     | Not available.      |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.      |
| <b>VOC content:</b>                             | 2.89 %; 30 g/l      |
| <b>Viscosity:</b>                               | Not available.      |
| <b>Decomposition temperature:</b>               | Not available.      |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.  |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Reducing agents. Amines. Peroxides. Free radical initiators.  |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | 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**

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Inhalation of vapors or mists of the product may be irritating to the respiratory system. |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction.                                 |
| <b>Eye contact:</b>  | Causes serious eye irritation.  |
| <b>Ingestion:</b>    | May cause gastrointestinal disturbances.  |

| Hazardous Component(s)    | LD50s and LC50s  | Immediate and Delayed Health Effects                  |
|---------------------------|--|---|
| Hydroxyalkyl methacrylate | None   | Irritant, Allergen                                    |
| 2-Ethylhexanoic acid      | Oral LD50 (Rat) = 1.6 g/kg<br>Oral LD50 (Rabbit) = 1.3 g/kg<br>Dermal LD50 (Rabbit) = 1,260 mg/kg  | Eyes, Irritant, Reproductive                          |
| 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                         |
| Amine                     | None   | Allergen, Central nervous system, Corrosive, Irritant |

| Hazardous Component(s)    | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------|----------------|-----------------|--|
| Hydroxyalkyl methacrylate | No             | No              | No                                       |
| 2-Ethylhexanoic acid      | No             | No              | No                                       |
| Methacrylic acid          | No             | No              | No                                       |
| Amine                     | No             | No              | No                                       |

## 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 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 (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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

### 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: 2

**Prepared by:** Sheila Gines, Regulatory Affairs Specialist  
**Issue date:** 10/31/2016

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Revision Number: 003.1

Issue date: 11/02/2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE LB 8070 known as LOCTITE HD AntiSeize 20g stk E</b> | <b>IDH number:</b>  | 864067        |
| <b>Product type:</b>          | Lubricant  | <b>Item number:</b> | 41205         |
| <b>Restriction of Use:</b>    | None identified  | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center                 |                     |               |
| Rocky Hill, Connecticut 06067 | 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.henkeln.com                                      |                     |               |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
CAUSES SERIOUS EYE IRRITATION.

**HAZARD CLASS**

**HAZARD CATEGORY**

|                 |    |
|-----------------|----|
| SKIN IRRITATION | 2  |
| EYE IRRITATION  | 2A |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Wash affected area thoroughly after handling. Wear protective gloves, eye protection, and face protection.   |
| <b>Response:</b>   | 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 skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | Not prescribed   |

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* |
|--|------------|-------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 30 - 40     |

|   |            |         |
|---|------------|---------|
| Petroleum distillates, hydrotreated, light naphthenic | 64742-53-6 | 10 - 20 |
| Calcium fluoride                                      | 7789-75-5  | 10 - 20 |
| Graphite  | 7782-42-5  | 10 - 20 |
| Calcium distearate                                    | 1592-23-0  | 1 - 5   |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  |
| <b>Skin contact:</b> | Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse.                          |
| <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. Keep individual calm. Never give anything by mouth to an unconscious person. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention. |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Not available.   |
| <b>Hazardous combustion products:</b>     | Oxides of carbon.  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Ensure adequate ventilation. 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> | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8. |
| <b>Storage:</b>  | For safe storage, store between 15 °C (59°F) and 49 °C (120.2 °F)   |



## 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 |
|--|--|---|-----------|-------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 5 mg/m3 TWA<br>Inhalable fraction.<br>5 mg/m3 TWA mist<br>10 mg/m3 STEL mist | 5 mg/m3 TWA mist<br>500 ppm (2,000 mg/m3) PEL<br>5 mg/m3 PEL Mist.              | None      | None  |
| Petroleum distillates, hydrotreated, light naphthenic  | 5 mg/m3 TWA<br>Inhalable fraction.   | 5 mg/m3 PEL Mist.<br>500 ppm (2,000 mg/m3) PEL                                  | None      | None  |
| Calcium fluoride                                       | 2.5 mg/m3 TWA (as F)   | 2.5 mg/m3 PEL (as F)<br>2.5 mg/m3 TWA Dust.                                     | None      | None  |
| Graphite   | 2 mg/m3 TWA<br>Respirable fraction.  | 5 mg/m3 PEL<br>Respirable fraction.<br>15 mg/m3 PEL Total dust.<br>15 MPPCF TWA | None      | None  |
| Calcium distearate                                     | 10 mg/m3 TWA<br>3 mg/m3 TWA<br>Respirable fraction.                          | None  | None      | None  |

**Engineering controls:**

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

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available.

**Skin protection:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| <b>Physical state:</b>                          | Solid  |
| <b>Color:</b>                                   | Black  |
| <b>Odor:</b>                                    | Mild, Petroleum  |
| <b>Odor threshold:</b>                          | Not available.   |
| <b>pH:</b>                                      | Not applicable   |
| <b>Vapor pressure:</b>                          | Not determined   |
| <b>Boiling point/range:</b>                     | Not available.   |
| <b>Melting point/ range:</b>                    | Not available.   |
| <b>Specific gravity:</b>                        | 1.1777   |
| <b>Vapor density:</b>                           | Not available.   |
| <b>Flash point:</b>                             | Not classified as a flammable solid per DOT Classification Guidelines Part 173 Appendix H 7/10/2002. |
| <b>Flammable/Explosive limits - lower:</b>      | Not determined   |
| <b>Flammable/Explosive limits - upper:</b>      | Not determined   |
| <b>Autoignition temperature:</b>                | Not determined   |
| <b>Flammability:</b>                            | Not applicable   |
| <b>Evaporation rate:</b>                        | Not determined   |
| <b>Solubility in water:</b>                     | Not available.   |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined   |
| <b>VOC content:</b>                             | 13.3 %; 157 g/l  |
| <b>Viscosity:</b>                               | Not available.   |
| <b>Decomposition temperature:</b>               | Not available.   |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use. |
| <b>Hazardous reactions:</b>              | Will not occur.                                    |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Hydrocarbons.                    |
| <b>Incompatible materials:</b>           | Acids. Alkalis.                                    |
| <b>Reactivity:</b>                       | Not available.                                     |
| <b>Conditions to avoid:</b>              | None known   |

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | May cause respiratory tract irritation. This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use.     |
| <b>Skin contact:</b> | Causes skin irritation.  |
| <b>Eye contact:</b>  | Causes serious eye irritation.   |
| <b>Ingestion:</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis. |

| Hazardous Component(s)                                 | LD50s and LC50s               | Immediate and Delayed Health Effects |
|--|-------------------------------|--------------------------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | None                          | Irritant                             |
| Petroleum distillates, hydrotreated, light naphthenic  | None                          | Irritant                             |
| Calcium fluoride                                       | Oral LD50 (Rat) = 4,250 mg/kg | Teeth, Muscle, Respiratory           |
| Graphite   | None                          | Lung                                 |
| Calcium distearate                                     | None                          | No Target Organs                     |

| Hazardous Component(s)                                 | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Distillates (petroleum), hydrotreated heavy naphthenic | No             | No              | No                                       |
| Petroleum distillates, hydrotreated, light naphthenic  | No             | No              | No                                       |
| Calcium fluoride                                       | No             | No              | No                                       |
| Graphite   | No             | No              | No                                       |
| Calcium distearate                                     | No             | No              | No                                       |

## 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 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 (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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**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 Canadian Domestic Substances List.

### 16. OTHER INFORMATION

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

**Prepared by:** Catherine Bimler, Regulatory Affairs Specialist  
**Issue date:** 11/02/2016

**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.



Revision Number: 003.0

Issue date: 11/07/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                            |   |                             |   |
|----------------------------|---|-----------------------------|---|
| <b>Product name:</b>       | <b>Quickstix(TM) 248(TM) Threadlocker<br/>Medium Strength</b>         | <b>IDH number:</b>          | 826034  |
| <b>Product type:</b>       | Anaerobic Adhesive  | <b>Item number:</b>         | 37684PR   |
| <b>Restriction of Use:</b> | None identified   | <b>Region:</b>              | United States   |
| <b>Company address:</b>    | Henkel Corporation<br>Henkel Way One<br>Rocky Hill, Connecticut 06067 | <b>Contact information:</b> | Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
SUSPECTED OF CAUSING CANCER.

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

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or fumes. 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.                                     |
| <b>Response:</b>   | 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. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | 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* |
|--|-------------|-------------|
| Tetramethylene dimethacrylate                        | 2082-81-7   | 10 - 20     |
| Rheological additive                                 | Unknown     | 5 - 10      |
| Silica, amorphous, fumed, crystal-free               | 112945-52-5 | 1 - 5       |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | 123-26-2    | 1 - 5       |
| Ethene, homopolymer                                  | 9002-88-4   | 1 - 5       |
| Saccharin  | 81-07-2     | 0.1 - 1     |
| Cumene hydroperoxide                                 | 80-15-9     | 0.1 - 1     |
| 1-Acetyl-2-phenylhydrazine                           | 114-83-0    | 0.1 - 1     |
| Cumene   | 98-82-8     | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:** For safe storage, store at or below 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 |
|--|--|---|---|-------|
| Tetramethylene dimethacrylate                        | None   | None  | None                                    | None  |
| Rheological additive                                 | 10 mg/m <sup>3</sup> TWA Total dust.<br>3 mg/m <sup>3</sup> TWA Respirable fraction.           | 15 mg/m <sup>3</sup> TWA Total dust.<br>5 mg/m <sup>3</sup> TWA Respirable fraction.  | None                                    | None  |
| Silica, amorphous, fumed, crystal-free               | 10 mg/m <sup>3</sup> TWA Inhalable dust.<br>3 mg/m <sup>3</sup> TWA Respirable fraction.       | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA   | None                                    | None  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | None   | None  | None                                    | None  |
| Ethene, homopolymer                                  | 10 mg/m <sup>3</sup> TWA Inhalable particles.<br>3 mg/m <sup>3</sup> TWA Respirable particles. | 15 MPPCF TWA Respirable fraction.<br>15 mg/m <sup>3</sup> TWA Total dust.<br>50 MPPCF TWA Total dust.<br>5 mg/m <sup>3</sup> TWA Respirable fraction.<br>5 mg/m <sup>3</sup> PEL Respirable fraction.<br>15 mg/m <sup>3</sup> PEL Total dust. | None                                    | None  |
| Saccharin  | None   | None  | None                                    | None  |
| Cumene hydroperoxide                                 | None   | None  | 1 ppm (6 mg/m <sup>3</sup> ) TWA (SKIN) | None  |
| 1-Acetyl-2-phenylhydrazine                           | None   | None  | None                                    | None  |
| Cumene   | 50 ppm TWA   | 50 ppm (245 mg/m <sup>3</sup> ) PEL (SKIN)  | None                                    | None  |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves. Nitrile gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                             |
|---|-----------------------------|
| <b>Physical state:</b>                          | Solid, Paste                |
| <b>Color:</b>                                   | Blue                        |
| <b>Odor:</b>                                    | Characteristic              |
| <b>Odor threshold:</b>                          | Not available.              |
| <b>pH:</b>                                      | Not applicable              |
| <b>Vapor pressure:</b>                          | < 5 mm hg (80 °F (26.7 °C)) |
| <b>Boiling point/range:</b>                     | > 300 °F (> 148.9 °C)None   |
| <b>Melting point/ range:</b>                    | Not available.              |
| <b>Specific gravity:</b>                        | 1.1                         |
| <b>Vapor density:</b>                           | Not available.              |
| <b>Flash point:</b>                             | Product is a solid.         |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.              |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.              |
| <b>Autoignition temperature:</b>                | Not available.              |
| <b>Flammability:</b>                            | Not applicable              |
| <b>Evaporation rate:</b>                        | Not available.              |
| <b>Solubility in water:</b>                     | Slight                      |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.              |
| <b>VOC content:</b>                             | 0.37 %; 4.08 g/l            |
| <b>Viscosity:</b>                               | Not available.              |
| <b>Decomposition temperature:</b>               | Not available.              |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                               | LD50s and LC50s   | Immediate and Delayed Health Effects                               |
|--|---|--|
| Tetramethylene dimethacrylate                        | None  | Irritant, Allergen   |
| Rheological additive                                 | None  | No Data  |
| Silica, amorphous, fumed, crystal-free               | None  | Nuisance dust  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | None  | No Data  |
| Ethene, homopolymer                                  | None  | No Target Organs   |
| Saccharin  | Oral LD50 (Mouse) = 17 g/kg   | No Target Organs   |
| Cumene hydroperoxide                                 | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |
| 1-Acetyl-2-phenylhydrazine                           | Oral LD50 (Mouse) = 270 mg/kg   | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Cumene   | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                             |

| Hazardous Component(s)                               | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| Tetramethylene dimethacrylate                        | No   | No              | No                                       |
| Rheological additive                                 | No   | No              | No                                       |
| Silica, amorphous, fumed, crystal-free               | No   | No              | No                                       |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | No   | No              | No                                       |
| Ethene, homopolymer                                  | No   | No              | No                                       |
| Saccharin  | No   | No              | No                                       |
| Cumene hydroperoxide                                 | No   | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine                           | No   | No              | No                                       |
| Cumene   | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (49 CFR)

**Proper shipping name:** RQ, Environmentally hazardous substance, solid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III  
**DOT Hazardous Substance(s):** alpha,alpha-Dimethylbenzylhydroperoxide

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

**Proper shipping name:** RQ, Environmentally hazardous substance, solid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3077  
**Packing group:** III

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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 minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**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:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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

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

**Issue date:** 11/07/2017

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Revision Number: 008.0

Issue date: 01/10/2018

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE® 290™ THREADLOCKER</b>              | <b>IDH number:</b>  | 233731        |
|                               | <b>e WICKING GRADE</b>                         |                     |               |
| <b>Product type:</b>          | Anaerobic Sealant                              | <b>Item number:</b> | 29021         |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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 AND EYE IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN IRRITATION                                    | 2               |
| EYE IRRITATION                                     | 2B              |
| SKIN SENSITIZATION                                 | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.  |
| <b>Response:</b>   | 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. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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* |
|------------------------|------------|-------------|
| Cumene hydroperoxide   | 80-15-9    | 1 - 5       |
| Saccharin              | 81-07-2    | 1 - 5       |
| Cumene                 | 98-82-8    | 0.1 - 1     |
| Methyl methacrylate    | 80-62-6    | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                      |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:** For safe storage, store at or below 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  |
|------------------------|--|-------------------------------------|----------------------------------|--------|
| Cumene hydroperoxide   | None   | None                                | 1 ppm (6 mg/m3)<br>TWA<br>(SKIN) | None   |
| Saccharin              | None   | None                                | None                             | None   |
| Cumene                 | 50 ppm TWA   | 50 ppm (245 mg/m3)<br>PEL<br>(SKIN) | None                             | None   |
| Methyl methacrylate    | 50 ppm TWA<br>100 ppm STEL<br>(Dermal sensitization) | 100 ppm (410<br>mg/m3) PEL          | None                             | 50 ppm |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| <b>Physical state:</b>                          | Liquid                                       |
| <b>Color:</b>                                   | Green  |
| <b>Odor:</b>                                    | Mild   |
| <b>Odor threshold:</b>                          | Not available.                               |
| <b>pH:</b>                                      | Not applicable                               |
| <b>Vapor pressure:</b>                          | < 5 mm hg (27.0 °C (80.6 °F))                |
| <b>Boiling point/range:</b>                     | > 149.0 °C (> 300.2 °F)                      |
| <b>Melting point/ range:</b>                    | Not available.                               |
| <b>Specific gravity:</b>                        | 1.07 at 26.70 °C (80.06 °F)                  |
| <b>Vapor density:</b>                           | Not available.                               |
| <b>Flash point:</b>                             | > 93.3 °C (> 199.94 °F) Tagliabue closed cup |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.                               |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.                               |
| <b>Autoignition temperature:</b>                | Not available.                               |
| <b>Flammability:</b>                            | Not applicable                               |
| <b>Evaporation rate:</b>                        | Not available.                               |
| <b>Solubility in water:</b>                     | Slight                                       |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                               |
| <b>VOC content:</b>                             | 2.27 %; 22.1 g/l                             |
| <b>Viscosity:</b>                               | Not available.                               |
| <b>Decomposition temperature:</b>               | Not available.                               |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.   |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Phenolics.                                 |
| <b>Incompatible materials:</b>           | Copper. Iron. Rust. Aluminum. Zinc. Strong oxidizing agents. Reducing agents. Oxygen scavengers. Strong acids. Strong alkalis. |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | 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**

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

| Hazardous Component(s) | LD50s and LC50s   | Immediate and Delayed Health Effects                                    |
|------------------------|---|---|
| Cumene hydroperoxide   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen          |
| Saccharin              | Oral LD50 (Mouse) = 17 g/kg   | No Target Organs  |
| Cumene                 | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                                  |
| Methyl methacrylate    | Oral LD50 (Rat) = 7,800 mg/kg<br>Oral LD50 (Rabbit) = 6,000 mg/kg<br>Oral LD50 (Rat) = 9,400 mg/kg    | Allergen, Irritant, Kidney, Liver, Mutagen, Nervous System, Respiratory |

| Hazardous Component(s) | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|--|-----------------|--|
| Cumene hydroperoxide   | No   | No              | No                                       |
| Saccharin              | No   | No              | No                                       |
| Cumene                 | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |
| Methyl methacrylate    | No   | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains, soil or bodies of water.

## 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 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 (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)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

## 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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9). Saccharin (CAS# 81-07-2).  
**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.

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3

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

**Issue date:** 01/10/2018

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Revision Number: 008.0

Issue date: 11/02/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE® 263™ THREADLOCKER</b>              | <b>IDH number:</b>  | 1330583       |
| <b>Product type:</b>          | Anaerobic Sealant                              | <b>Item number:</b> | 1330583       |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.  
 SUSPECTED OF CAUSING CANCER.  
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

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

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe 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.                             |
| <b>Response:</b>   | 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. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | 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* |
|--|-------------|-------------|
| 3,3,5 Trimethylcyclohexyl methacrylate   | 7779-31-9   | 20 - 30     |
| Methacrylic acid, monoester with 1,2-propanediol, polymer with 4,4'-methylenediphenyl diisocyanate | 190208-19-6 | 10 - 20     |
| Polyglycol dimethacrylate  | 109-16-0    | 5 - 10      |
| Cumene hydroperoxide   | 80-15-9     | 1 - 5       |
| 1-Acetyl-2-phenylhydrazine   | 114-83-0    | 0.1 - 1     |
| Cumene   | 98-82-8     | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                      |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of nitrogen. Thermal decomposition can lead to release of irritating gases and vapors.                                      |

### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | 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-up. 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:**

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

**Storage:**

For safe storage, store at or below 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 |
|---|------------|--|---|-------|
| 3,3,5 Trimethylcyclohexyl methacrylate  | None       | None   | None  | None  |
| Methacrylic acid, monoester with 1,2-propanediol, polymer with 4,4'-methylene-diphenyl diisocyanate | None       | None   | None  | None  |
| Polyglycol dimethacrylate   | None       | None   | None  | None  |
| Cumene hydroperoxide  | None       | None   | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None  |
| 1-Acetyl-2-phenylhydrazine  | None       | None   | None  | None  |
| Cumene  | 50 ppm TWA | 50 ppm (245 mg/m <sup>3</sup> )<br>PEL<br>(SKIN) | None  | None  |

**Engineering controls:**

Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

Red

**Odor:**

Characteristic

**Odor threshold:**

Not available.

**pH:**

Not available.

**Vapor pressure:**

Not available.

**Boiling point/range:**

Not available.

**Melting point/ range:**

Not available.

**Specific gravity:**

1.08 at 20 °C (68°F)

**Vapor density:**

Not available.

**Flash point:**

100 °C (212°F) ; Estimated

**Flammable/Explosive limits - lower:**

Not available.

|   |                |
|---|----------------|
| <b>Flammable/Explosive limits - upper:</b>      | Not available. |
| <b>Autoignition temperature:</b>                | Not available. |
| <b>Flammability:</b>                            | Not applicable |
| <b>Evaporation rate:</b>                        | Not available. |
| <b>Solubility in water:</b>                     | Slight         |
| <b>Partition coefficient (n-octanol/water):</b> | Not available. |
| <b>VOC content:</b>                             | 0.36 %         |
| <b>Viscosity:</b>                               | Not available. |
| <b>Decomposition temperature:</b>               | Not available. |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | 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 irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)   | LD50s and LC50s   | Immediate and Delayed Health Effects                               |
|--|---|--|
| 3,3,5 Trimethylcyclohexyl methacrylate   | None  | No Records   |
| Methacrylic acid, monoester with 1,2-propanediol, polymer with 4,4'-methylenediphenyl diisocyanate | None  | Irritant, Allergen   |
| Polyglycol dimethacrylate  | None  | Irritant, Allergen   |
| Cumene hydroperoxide   | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen     |
| 1-Acetyl-2-phenylhydrazine   | Oral LD50 (Mouse) = 270 mg/kg   | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |
| Cumene   | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                             |

| Hazardous Component(s)   | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|--|-----------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate   | No   | No              | No                                       |
| Methacrylic acid, monoester with 1,2-propanediol, polymer with 4,4'-methylenediphenyl diisocyanate | No   | No              | No                                       |
| Polyglycol dimethacrylate  | No   | No              | No                                       |
| Cumene hydroperoxide   | No   | No              | No                                       |
| 1-Acetyl-2-phenylhydrazine   | No   | No              | No                                       |
| Cumene   | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (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)**

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9).  
**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.

**Canada Regulatory Information**

**CEPA DSL/NDL 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.

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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

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

**Issue date:** 11/02/2017

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Revision Number: 004.2

Issue date: 11/09/2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>Retaining Compound 641 Medium Strength</b>  | <b>IDH number:</b>  | 233546        |
| <b>Product type:</b>          | Anaerobic Adhesive                             | <b>Item number:</b> | 28802         |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: +1 (860) 571-5100                   |                     |               |
| Henkel Way One                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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, eye protection, and face protection.  |
| <b>Response:</b>   | 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. |
| <b>Storage:</b>    | Not prescribed   |
| <b>Disposal:</b>   | 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* |
|---------------------------|------------|-------------|
| Polyglycol dimethacrylate | 25852-47-5 | 60 - 70     |
| Polyglycol dioctanoate    | 18268-70-7 | 10 - 20     |
| Cumene hydroperoxide      | 80-15-9    | 1 - 5       |
| Saccharin                 | 81-07-2    | 1 - 5       |
| Cumene                    | 98-82-8    | 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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move 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 footwear. Wash clothing before reuse. Get medical attention. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | 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.

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.
- Storage:** For safe storage, store at or below 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 |
|---------------------------|------------|--|---|-------|
| Polyglycol dimethacrylate | None       | None   | None  | None  |
| Polyglycol dioctanoate    | None       | None   | None  | None  |
| Cumene hydroperoxide      | None       | None   | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None  |
| Saccharin                 | None       | None   | None  | None  |
| Cumene                    | 50 ppm TWA | 50 ppm (245 mg/m <sup>3</sup> )<br>PEL<br>(SKIN) | None  | None  |

- Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Liquid
- Color:** Yellow
- Odor:** Characteristic
- Odor threshold:** Not available.
- pH:** Not available.
- Vapor pressure:** < 5 mm hg (27 °C (80.6 °F))
- Boiling point/range:** > 149 °C (> 300.2 °F)
- Melting point/ range:** Not available.
- Specific gravity:** 1.08 at 20 °C (68°F)
- Vapor density:** Not available.
- Flash point:** > 93.3 °C (> 199.94 °F) Tagliabue closed cup
- 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:** 0.07 %; 0.75 g/l
- Viscosity:** Not available.
- Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Irritating organic vapours.  |
| <b>Incompatible materials:</b>           | Free radical initiators. Oxidizing agents. Reducing agents. Metal oxides. Acids. Alkalis.                                    |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | 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**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause irritation to nose and throat. |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction.  |
| <b>Eye contact:</b>  | Causes serious eye irritation.   |
| <b>Ingestion:</b>    | May cause irritation to the gastrointestinal tract, mouth and mucous membranes.  |

| Hazardous Component(s)    | LD50s and LC50s   | Immediate and Delayed Health Effects                           |
|---------------------------|---|--|
| Polyglycol dimethacrylate | None  | Allergen, Irritant   |
| Polyglycol dioctanoate    | None  | Irritant   |
| Cumene hydroperoxide      | Inhalation LC50 (Mouse, 4 h) = 200 mg/l   | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Saccharin                 | Oral LD50 (Mouse) = 17 g/kg   | No Target Organs   |
| Cumene                    | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm | Central nervous system, Irritant, Lung                         |

| Hazardous Component(s)    | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------|--|-----------------|--|
| Polyglycol dimethacrylate | No   | No              | No                                       |
| Polyglycol dioctanoate    | No   | No              | No                                       |
| Cumene hydroperoxide      | No   | No              | No                                       |
| Saccharin                 | No   | No              | No                                       |
| Cumene                    | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 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 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 (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)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

## 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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 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). Cumene hydroperoxide (CAS# 80-15-9). Saccharin (CAS# 81-07-2).  
**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.

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: Reviewed SDS. Reissued with new date.

**Prepared by:** Sheila Gines, Regulatory Affairs Specialist

**Issue date:** 11/09/2016

**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.



Revision Number: 002.1

Issue date: 09/11/2017

**1. PRODUCT AND COMPANY IDENTIFICATION**

|                            |   |                             |   |
|----------------------------|---|-----------------------------|---|
| <b>Product name:</b>       | <b>LOCTITE 454 INSTANT ADHESIVE</b><br><b>GEL known as LOCTITE®</b><br><b>QUICKTITE® INSTANT AD</b> | <b>IDH number:</b>          | 680522  |
| <b>Product type:</b>       | Cyanoacrylate   | <b>Item number:</b>         | 39202   |
| <b>Restriction of Use:</b> | None identified   | <b>Region:</b>              | United States   |
| <b>Company address:</b>    | Henkel Corporation<br>Henkel Way One<br>Rocky Hill, Connecticut 06067                               | <b>Contact information:</b> | Telephone: +1 (860) 571-5100<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**WARNING:** BONDS SKIN IN SECONDS.  
COMBUSTIBLE LIQUID.  
CAUSES EYE IRRITATION.  
MAY CAUSE RESPIRATORY IRRITATION.

| HAZARD CLASS                                     | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID                                 | 4               |
| EYE IRRITATION                                   | 2B              |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3               |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

**Response:** 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 eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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* |
|------------------------|------------|-------------|
| Ethyl 2-cyanoacrylate  | 7085-85-0  | 80 - 90     |
| Treated fumed silica   | 67762-90-7 | 5 - 10      |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

|                            |  |
|----------------------------|--|
| <b>Inhalation:</b>         | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.  |
| <b>Skin contact:</b>       | Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.  |
| <b>Eye contact:</b>        | Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage. |
| <b>Ingestion:</b>          | Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.  |
| <b>Symptoms:</b>           | See Section 11.  |
| <b>Notes to physician:</b> | Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.   |

### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>   | Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. |
| <b>Unusual fire or explosion hazards:</b> | Not available.  |

**Hazardous combustion products:**

Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## 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:**

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## 7. HANDLING AND STORAGE

**Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Storage:**

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 |
|------------------------|--|--|-----------|-------|
| Ethyl 2-cyanoacrylate  | 0.2 ppm TWA  | 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  |

**Engineering controls:**

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established 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. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:**

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Gel

**Color:**

Clear

**Odor:**

Irritating

**Odor threshold:**

1 - 2 ppm

**pH:**

Not available.

**Vapor pressure:**

< 0.2 mm hg

**Boiling point/range:**

> 149 °C (> 300.2 °F)

**Melting point/ range:**

Not available.

**Specific gravity:**

1.05

**Vapor density:**

3

**Flash point:**

80 - 93 °C (176°F - 199.4 °F) Tagliabue closed cup

**Flammable/Explosive limits - lower:**

Not available.

**Flammable/Explosive limits - upper:** Not available.  
**Autoignition temperature:** 485 °C (905°F)  
**Flammability:** Not applicable  
**Evaporation rate:** Not available.  
**Solubility in water:** Polymerises in presence of water.  
**Solubility in water:** Polymerizes on contact with water.  
**Partition coefficient (n-octanol/water):** Not available.  
**VOC content:** < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)  
**Viscosity:** Not available.  
**Decomposition temperature:** Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.  
**Hazardous reactions:** Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.  
**Hazardous decomposition products:** None  
**Incompatible materials:** Water, Amines, Alkalis, Alcohols.  
**Reactivity:** Not available.  
**Conditions to avoid:** Spontaneous polymerization.

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

**Inhalation:** May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.  
**Skin contact:** May cause skin irritation. May cause allergic skin reaction. Bonds skin in seconds. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.  
**Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.  
**Ingestion:** Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|-----------------|--------------------------------------|
| Ethyl 2-cyanoacrylate  | None            | Irritant, Allergen, Respiratory      |
| Treated fumed silica   | None            | Irritant                             |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Ethyl 2-cyanoacrylate  | No             | No              | No                                       |
| Treated fumed silica   | No             | No              | No                                       |

## 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

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 (49 CFR)

**Proper shipping name:** Combustible liquid, n.o.s. (Cyanoacrylate ester)  
**Hazard class or division:** Combustible Liquid  
**Identification number:** NA 1993  
**Packing group:** III

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)  
**Hazard class or division:** 9  
**Identification number:** UN 3334  
**Packing group:** III  
**Exceptions:** Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

### 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 minimis  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Fire, Reactive  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**California Proposition 65:** 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:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

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

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

**Issue date:** 09/11/2017

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