**Revision Number:** 002.0

**Issue date:** 09/18/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **LOCTITE 536 known as LOCTITE LO BRK LOOSE 536 50ML E**
**Product type:** Anaerobic Sealant
**Restriction of Use:** None identified
**Company address:**
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

**IDH number:** 1787978
**Item number:** 1787978
**Region:** United States
**Contact information:**
Telephone: (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

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

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

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

**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* |
|---|---|---|
| Glyceryl ester | Proprietary | 30 - 60 |
| Mica | 12001-26-2 | 10 - 30 |
| Polyglycol dimethacrylate | Proprietary | 5 - 10 |
| Ethene, tetrafluoro-, homopolymer | 9002-84-0 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 1 - 5 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5 |
| Cumene hydroperoxide | 80-15-9 | 1 - 5 |
| Ethylene glycol | 107-21-1 | 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

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Symptoms:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

**Unusual fire or explosion hazards:** Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

**Hazardous combustion products:** Oxides of carbon. Toxic fluorides. 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 28 °C (82.4 °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 |
|---|---|---|---|---|
| Glyceryl ester | None | None | None | None |
| Mica | 3 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA | None | None |
| Polyglycol dimethacrylate | None | None | None | None |
| Ethene, tetrafluoro-, homopolymer | None | None | None | 10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. |
| Titanium dioxide | 10 mg/m3 TWA | 15 mg/m3 PEL Total dust. | None | None |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 0.8 mg/m3 TWA | None | None |
| Cumene hydroperoxide | None | None | 1 ppm (6 mg/m3) TWA (SKIN) | None |
| Ethylene glycol | 100 mg/m3 Ceiling Aerosol. | None | None | None |
| Cumene | 50 ppm TWA | 50 ppm (245 mg/m3) 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste
**Color:** Off white
**Odor:** Acrylic
**Odor threshold:** Not available.
**pH:** Not applicable
**Vapor pressure:** < 5 mm hg (80 °F (26.7 °C))
**Boiling point/range:** > 300 °F (> 148.9 °C) None
**Melting point/ range:** Not available.
**Specific gravity:** 1.32
**Vapor density:** Not available.

| | |
|---|---|
| **Flash point:** | > 93 °C (> 199.4 °F) |
| **Flammable/Explosive limits - lower:** | Not available. |
| **Flammable/Explosive limits - upper:** | Not available. |
| **Autoignition temperature:** | Not available. |
| **Evaporation rate:** | Not available. |
| **Solubility in water:** | Slight |
| **Partition coefficient (n-octanol/water):** | Not available. |
| **VOC content:** | 7.90 g/l (calculated) |
| **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. Irritating organic vapours. Toxic fluorides. |
| **Incompatible materials:** | Oxygen scavengers. Strong alkalis. Reducing agents. Acids. Oxidizing agents. Other polymerization initiators. |
| **Reactivity:** | Not available. |
| **Conditions to avoid:** | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system.
**Skin contact:** May cause allergic skin reaction. Causes skin irritation.
**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 |
| Mica | None | Lung |
| Polyglycol dimethacrylate | None | Allergen, Irritant |
| Ethene, tetrafluoro-, homopolymer | None | No Target Organs |
| Titanium dioxide | None | Irritant, Respiratory, Some evidence of carcinogenicity |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust |
| Cumene hydroperoxide | None | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Ethylene glycol | Oral LD50 (RAT) = 5.89 g/kg<br>Dermal LD50 (RABBIT) = 9,530 mg/kg | Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic |
| 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 |
| Mica | No | No | No |
| Polyglycol dimethacrylate | No | No | No |
| Ethene, tetrafluoro-, homopolymer | No | No | No |
| Titanium dioxide | No | Group 2B | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| Cumene hydroperoxide | No | No | No |
| Ethylene glycol | No | No | No |
| Cumene | 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:** 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:** | 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). Ethylene glycol (CAS# 107-21-1). |
| **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:** | 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:** 09/18/2014

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