



Revision Number: 006.0

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## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |                                                |                     |               |
|-------------------------------|------------------------------------------------|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE® 1 GASKET SEALANT</b>               | <b>IDH number:</b>  | 234887        |
| <b>Product type:</b>          | Sealant                                        | <b>Item number:</b> | 30512         |
| <b>Restriction of Use:</b>    | None identified                                | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: (860) 571-5100                      |                     |               |
| One Henkel Way                | 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.

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

### PICTOGRAM(S)



### Precautionary Statements

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prevention:</b> | Avoid breathing dust or fumes. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves. In case of inadequate ventilation wear respiratory protection.                                                                                                                                                                                                                                                                                 |
| <b>Response:</b>   | IF ON SKIN: Wash with plenty of soap and 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 remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. 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* |
|----------------------------|------------|-------------|
| Kaolin                     | 1332-58-7  | 30 - 60     |
| Rosin                      | 8050-09-7  | 10 - 30     |
| Methyl acetate             | 79-20-9    | 10 - 30     |
| Castor oil, oxidized       | 68187-84-8 | 5 - 10      |
| Titanium dioxide           | 13463-67-7 | 1 - 5       |
| Lecithins, soybean         | 8030-76-0  | 1 - 5       |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | 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 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>               | 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.                                                                                                                                     |
| <b>Unusual fire or explosion hazards:</b> | Vapor accumulation can flash or explode if ignited. Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers. In case of fire, keep containers cool with water spray. |
| <b>Hazardous combustion products:</b>     | Aldehydes. Oxides of carbon. Carboxylic acids. Irritating vapors.                                                                                                                                                                |

### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation. 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.

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 |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------|
| Kaolin                     | 2 mg/m3 TWA<br>Respirable fraction.                                                                                                                                        | 15 mg/m3 PEL Total dust.<br>5 mg/m3 PEL Respirable fraction.                        | None      | None  |
| Rosin                      | Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details | None                                                                                | None      | None  |
| Methyl acetate             | 200 ppm TWA<br>250 ppm STEL                                                                                                                                                | 200 ppm (610 mg/m3) PEL                                                             | None      | None  |
| Castor oil, oxidized       | None                                                                                                                                                                       | None                                                                                | None      | None  |
| Titanium dioxide           | 10 mg/m3 TWA                                                                                                                                                               | 15 mg/m3 PEL Total dust.                                                            | None      | None  |
| Lecithins, soybean         | None                                                                                                                                                                       | None                                                                                | None      | None  |
| Quartz (SiO <sub>2</sub> ) | 0.025 mg/m3 TWA<br>Respirable fraction.                                                                                                                                    | 2.4 MPPCF TWA Respirable.<br>0.1 mg/m3 TWA Respirable.<br>0.3 mg/m3 TWA Total dust. | 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:** Paste  
**Color:** Red-brown  
**Odor:** Ester-like  
**Odor threshold:** 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>                        | 1.6                               |
| <b>Vapor density:</b>                           | Not available.                    |
| <b>Flash point:</b>                             | Product is a solid. (ASTM D 4359) |
| <b>Flammable/Explosive limits - lower:</b>      | Not determined                    |
| <b>Flammable/Explosive limits - upper:</b>      | Not determined                    |
| <b>Autoignition temperature:</b>                | Not available.                    |
| <b>Evaporation rate:</b>                        | Not available.                    |
| <b>Solubility in water:</b>                     | Partially soluble                 |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                    |
| <b>VOC content:</b>                             | 0.51 % EPA Method 24              |
| <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. Carboxylic acids. Aldehydes. Irritating vapors.                                                  |
| <b>Incompatible materials:</b>           | Nitric acid. Strong oxidizing agents. Amines. Ammonia. Sulfuric acid. Strong acids.                                |
| <b>Reactivity:</b>                       | Not available.                                                                                                     |
| <b>Conditions to avoid:</b>              | Store away from incompatible materials. Heat, flames, sparks and other sources of ignition. Elevated temperatures. |

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

**Inhalation:** 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). May cause irritation to nose and throat.

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

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

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

| Hazardous Component(s)     | LD50s and LC50s                                                      | Immediate and Delayed Health Effects                    |
|----------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| Kaolin                     | Oral LD50 (RAT) = > 5,000 mg/kg<br>Dermal LD50 (RAT) = > 5,000 mg/kg | Nuisance dust                                           |
| Rosin                      | None                                                                 | Allergen, Irritant, Respiratory                         |
| Methyl acetate             | Oral LD50 (RABBIT) = 3.7 g/kg                                        | Blood, Central nervous system, Eyes, Irritant           |
| Castor oil, oxidized       | None                                                                 | No Records                                              |
| Titanium dioxide           | None                                                                 | Irritant, Respiratory, Some evidence of carcinogenicity |
| Lecithins, soybean         | None                                                                 | No Target Organs                                        |
| Quartz (SiO <sub>2</sub> ) | None                                                                 | Immune system, Lung, Some evidence of carcinogenicity   |

| Hazardous Component(s)     | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|----------------------------|-------------------------------|-----------------|---------------------------------------------|
| Kaolin                     | No                            | No              | No                                          |
| Rosin                      | No                            | No              | No                                          |
| Methyl acetate             | No                            | No              | No                                          |
| Castor oil, oxidized       | No                            | No              | No                                          |
| Titanium dioxide           | No                            | Group 2B        | No                                          |
| Lecithins, soybean         | No                            | No              | No                                          |
| Quartz (SiO <sub>2</sub> ) | Known To Be Human Carcinogen. | Group 1         | 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**

|                                         |                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSCA 8 (b) Inventory Status:</b>     | All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.                                                                                                     |
| <b>TSCA 12 (b) Export Notification:</b> | Blown castor oil (CAS# 68187-84-8).                                                                                                                                                                     |
| <b>CERCLA/SARA Section 302 EHS:</b>     | None above reporting de minimis                                                                                                                                                                         |
| <b>CERCLA/SARA Section 311/312:</b>     | Immediate Health, Delayed Health                                                                                                                                                                        |
| <b>CERCLA/SARA Section 313:</b>         | None above reporting de minimis                                                                                                                                                                         |
| <b>CERCLA Reportable quantity:</b>      | Methyl acetate (CAS# 79-20-9) 100 lbs. (45.4 kg)                                                                                                                                                        |
| <b>California Proposition 65:</b>       | 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**

|                             |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| <b>CEPA DSL/NDL Status:</b> | 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:** 07/31/2014

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