1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>LOCTITE LB 8012 LOW FRICITION LUBRICANT known as Moly Paste</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDH number:</td>
<td>226696</td>
</tr>
<tr>
<td>Product type/use:</td>
<td>Lubricant</td>
</tr>
<tr>
<td>Restriction of Use:</td>
<td>None identified</td>
</tr>
<tr>
<td>Company address:</td>
<td>Henkel Corporation</td>
</tr>
<tr>
<td></td>
<td>One Henkel Way</td>
</tr>
<tr>
<td></td>
<td>Rocky Hill, Connecticut 06067</td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**DANGER:**
- CAUSES SKIN IRRITATION.
- CAUSES SERIOUS EYE IRRITATION.
- CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

**HAZARD CLASS**

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN IRRITATION</td>
<td>2</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>2A</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</td>
<td>1</td>
</tr>
</tbody>
</table>

**PICTOGRAM(S)**

**Precautionary Statements**

**Prevention:**
- Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. 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. 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.

**Storage:**
- Not prescribed

**Disposal:**
- Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.


See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: 226696

Product name: LOCTITE LB 8012 LOW FRICITION LUBRICANT known as Moly Paste
**Hazardous Component(s)** | **CAS Number** | **Percentage**
--- | --- | ---
Molybdenum disulphide | 1317-33-5 | 60 - 80
Residual oil, solvent-dewaxed, <5% DMSO | 64742-62-7 | 10 - 30
Quartz (SiO2), <1% respirable | 14808-60-7 | 1 - 5
Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 1 - 5
Petroleum distillates, hydrotreated, light naphthenic | 64742-53-6 | 1 - 5

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

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### 4. FIRST AID MEASURES

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

**Skin contact:**
Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Washing clothes before reuse.

**Eye contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**Ingestion:**
Do not induce vomiting. 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. In case of fire, keep containers cool with water spray.

**Unusual fire or explosion hazards:**
None

**Hazardous combustion products:**
Oxides of carbon. Toxic and irritating vapors.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions:**
Do not allow material to contaminate ground water system.

**Clean-up methods:**
Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

### 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.

**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.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>10 mg/m³ TWA (as Mo) Inhalable fraction.</td>
<td>15 mg/m³ PEL (as Mo) Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ TWA (as Mo) Respirable fraction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual oil, solvent-dewaxed, &lt;3% DMSO</td>
<td>5 mg/m³ TWA mist Exposure by all routes should be carefully controlled to levels as low as possible.</td>
<td>5 mg/m³ TWA mist</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ STEL mist 5 mg/m³ TWA Inhalable fraction. Included in the regulation but with no data values. See regulation for further details</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz (SiO₂), &lt;1% respirable</td>
<td>0.025 mg/m³ TWA Respirable fraction.</td>
<td></td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>5 mg/m³ TWA Inhalable fraction.</td>
<td>500 ppm (2,000 mg/m³) PEL 5 mg/m³ PEL Mist.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated, light naphthenic</td>
<td>5 mg/m³ TWA Inhalable fraction.</td>
<td>500 ppm (2,000 mg/m³) PEL 5 mg/m³ PEL Mist.</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**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. Safety showers and eye wash stations should be available.

**Skin protection:**
Chemical resistant, impermeable gloves. Use of Butyl or Nitrile Rubber gloves is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste
**Color:** Gray
**Odor:** Mild, Petroleum
**Odor threshold:** Not available.
**pH:** Not applicable
Vapor pressure: Not available.
Boiling point/range: Not available.
Melting point/range: Not available.
Specific gravity: 1.9614
Vapor density: Heavier than air.
Flash point: 160 °C (320°F)
Flammable/Explosive limits - lower: Not determined
Flammable/Explosive limits - upper: Not determined
Autoignition temperature: Not determined
Flammability: Not applicable
Evaporation rate: Less than butyl acetate.
Solubility in water: Slight
Partition coefficient (n-octanol/water): Not determined
VOC content: 5.08 %; 102.3 g/l EPA Method 24
Viscosity: Not available.
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: Will not occur.
Incompatible materials: Oxidizing agents.
Reactivity: Not available.
Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion
Potential Health Effects/Symptoms

**Inhalation:** May cause respiratory tract irritation. Contains crystalline silica (quartz), which is classified as a possible carcinogen. However, the crystalline silica present in this product is encapsulated in the liquid and will only be liberated if the product is sanded or abraded, and even then what is liberated will not be pure crystalline silica. Appropriate precautions, however, should be taken if the product is sanded or abraded to prevent personnel from breathing the dust.

**Skin contact:** Causes skin irritation.

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

**Ingestion:** May cause gastrointestinal disturbances.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>None</td>
<td>No Target Organs</td>
</tr>
<tr>
<td>Residual oil, solvent-dewaxed, &lt;3% DMSO</td>
<td>None</td>
<td>Irritant</td>
</tr>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>None</td>
<td>Immune system, Lung, Some evidence of carcinogenicity</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>None</td>
<td>Irritant</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated, light naphthenic</td>
<td>None</td>
<td>Irritant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum disulphide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Residual oil, solvent-dewaxed, &lt;3% DMSO</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>Known To Be Human Carcinogen.</td>
<td>Group 1</td>
<td>Yes</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated, light naphthenic</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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:** D005. Barium.

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)**

IDH number: 226696

Product name: LOCTITE LB 8012 LOW FRICTION LUBRICANT known as Moly Paste

Page 5 of 6
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: Product Safety and Regulatory Affairs
Issue date: 05/17/2019

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