1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® ANTI-SEIZE STICK SILVER  
Product type: Lubricant  
IDH number: 504469  
Item number: 37617  
Region: United States

Company address:  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067  
Contact information:  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

<table>
<thead>
<tr>
<th>Physical state: solid</th>
<th>HMIS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: silver</td>
<td>HEALTH: 1</td>
</tr>
<tr>
<td>Odor: mild</td>
<td>FLAMMABILITY: 1</td>
</tr>
<tr>
<td></td>
<td>PHYSICAL HAZARD: 0</td>
</tr>
<tr>
<td></td>
<td>Personal Protection: See MSDS Section 8</td>
</tr>
</tbody>
</table>

CAUTION: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Moderate respiratory tract irritation.
Skin contact: Moderate skin irritation.
Eye contact: Moderate eye irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS NUMBER</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Mineral oil light naphthenic hydrotreat. &lt;3% DMSO</td>
<td>64742-53-6</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>1305-78-8</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Aluminum not powder, dust or fume</td>
<td>7429-90-5</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.
Skin contact: Wash with soap and water. If symptoms develop and persist, get medical attention.
Eye contact: Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.
**Ingestion:**
Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention.

## 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong></td>
<td>Product is a solid. Burn Rate: Approx 12 mm/2 minutes</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flammable/Explosive limits - lower</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flammable/Explosive limits - upper</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Extinguishing media</strong></td>
<td>Carbon dioxide. Dry chemical. foam</td>
</tr>
<tr>
<td><strong>Special firefighting procedures</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Unusual fire or explosion hazards</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Hazardous combustion products</strong></td>
<td>Oxides of carbon.</td>
</tr>
</tbody>
</table>

## 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:**
No special environmental precautions required.

**Clean-up methods:**
Scrape up as much material as possible. Clean residue with soap and water. Follow all local, state, federal and provincial regulations for disposal.

## 7. HANDLING AND STORAGE

**Handling:**
Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep container closed.

**Storage:**
Keep in a cool, well ventilated area.

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.
<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>5 mg/m3 TWA mist 10 mg/m3 STEL mist 5 mg/m3 TWA Inhalable fraction.</td>
<td>5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Mineral oil light naphthenic hydrotreat. &lt;3% DMSO</td>
<td>5 mg/m3 TWA Inhalable fraction.</td>
<td>500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Graphite</td>
<td>2 mg/m3 TWA Respirable fraction.</td>
<td>5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>2 mg/m3 TWA 5 mg/m3 TWA</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Aluminum not powder, dust or fume</td>
<td>1 mg/m3 TWA Respirable fraction.</td>
<td>15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.</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: Observe OSHA regulations for respiratory use (29 CFR 1910.134). Use NIOSH approved respirator if there is potential to exceed exposure limit(s).


Skin protection: Cover as much as the exposed skin area as possible with appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: solid
- Color: silver
- Odor: mild
- Odor threshold: Not available.
- pH: Not applicable
- Vapor pressure: Not determined
- Boiling point/range: Not available.
- Melting point/range: Not available.
- Specific gravity: 1.10
- Vapor density: Not determined
- Flash point: Product is a solid. Burn Rate: Approx 12 mm/2 minutes
- Flammable/Explosive limits - lower: Not determined
- Flammable/Explosive limits - upper: Not determined
- Autoignition temperature: Not determined
- Evaporation rate: Not determined
- Solubility in water: Insoluble
- Partition coefficient (n-octanol/water): Not determined
- VOC content: 12.69 %; 147 g/l

10. STABILITY AND REACTIVITY

- Stability: Stable at normal conditions.
- Hazardous reactions: Will not occur.
- Hazardous decomposition products: Oxides of carbon.
- Incompatible materials: Oxidizing agents.
- Conditions to avoid: None known
11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Mineral oil light naphthenic hydrotreat. &lt;3% DMSO</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Graphite</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Aluminum not powder, dust or fume</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>Irritant</td>
</tr>
<tr>
<td>Mineral oil light naphthenic hydrotreat. &lt;3% DMSO</td>
<td>Irritant</td>
</tr>
<tr>
<td>Graphite</td>
<td>Lung</td>
</tr>
<tr>
<td>Calcium oxide</td>
<td>Irritant, Corrosive, Eyes</td>
</tr>
<tr>
<td>Aluminum not powder, dust or fume</td>
<td>Central nervous system, Irritant, Lung</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: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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 minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health
CERCLA/SARA 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). Aluminum not powder, dust or fume (CAS# 7429-90-5).

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.

WHMIS hazard class: D.2.B

16. OTHER INFORMATION

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

Prepared by: C.J. Michaels, Manager, Regulatory Affairs

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