1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Clover Silicon Carbide Grease Mix
Product type: Sharpening compound
Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Item No.: 39401 / IDH No. 232872
Region: United States

Contact Information:
Telephone: (860) 571-5100
Emergency telephone: (860) 571-5100
Internet: www.henkelna.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>75-85</td>
<td>5 mg/m³ TWA (mist)</td>
<td>5 mg/m³ TWA (mist)</td>
<td>None</td>
</tr>
<tr>
<td>Silicon carbide</td>
<td>30-60</td>
<td>0.1 fiber/cm³ TWA length &gt;5 µm, aspect ratio &gt;3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination</td>
<td>15 mg/m³ TWA total dust</td>
<td>None</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>0.1-1</td>
<td>0.025 mg/m³ TWA</td>
<td>(1/2)(30 mg/m³)/(%SiO₂ + 2) mppcf TWA (Total Dust)</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:
Physical state: Viscous liquid
Color: Grey
Odor: Mild petroleum

HEALTH: 1
FLAMMABILITY: 1
PHYSICAL HAZARD: 0

CAUTION: MAY CAUSE EYE AND SKIN IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.

Skin contact: May cause skin irritation with discomfort or rash.
Eye contact: Mild eye irritation.
Ingestion: Not expected under normal conditions of use.

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

See Section 11 for additional toxicological information.

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If discomfort persists seek medical attention.

**Skin contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion:** If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. If vomiting occurs, prevent aspiration by keeping the patient’s head below the knees. Get medical attention if symptoms develop and persist.

### 5. FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point:</strong></td>
<td>Greater than 93°C (200°F) Cleveland open cup</td>
</tr>
<tr>
<td><strong>Autoignition temperature:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammable/Explosive limits:</strong></td>
<td></td>
</tr>
<tr>
<td>lower %</td>
<td>Not available</td>
</tr>
<tr>
<td>upper %</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide. Do not use high volume water jet.

**Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** None

**Hazardous combustion products:** Oxides of carbon.

### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Contain spill. Prevent product from entering drains or open waters. Do not allow material to contaminate ground water system.

**Clean-up methods:** Soak up with inert absorbent. Scrape up spilled material and place in a closed container for disposal.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling.

**Storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**Incompatible products:** None reasonably foreseeable.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** 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 respiratory use (29 CFR 1910.134).
Skin protection: Neoprene gloves.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous liquid
Color: Grey
Odor: Mild petroleum
Vapor pressure: Not available
pH: Not applicable
Boiling point/range: 141-482°C (285-900°F)
Melting point/range: Not available
Specific gravity: 1.3548
Vapor density: Heavier than air
Solubility in water: Not available
Partition coefficient (n-octanol/water): Not available
VOC content: Essentially Zero

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: Will not occur.
Incompatability: Strong oxidizing agents.
Conditions to avoid: Elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated</td>
<td>No</td>
<td>Group 1</td>
<td>Yes</td>
</tr>
<tr>
<td>heavy naphthenic</td>
<td>64742-52-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicon carbide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>409-21-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>Known Carcinogen</td>
<td>Group 1</td>
<td>Yes</td>
</tr>
<tr>
<td>14464-46-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Literature Referenced Target Organ & Other Health Effects

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated</td>
<td>Irritant</td>
</tr>
<tr>
<td>heavy naphthenic</td>
<td>64742-52-5</td>
</tr>
<tr>
<td>Silicon carbide</td>
<td>Nuisance dust</td>
</tr>
<tr>
<td>409-21-2</td>
<td></td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>Lung, Human carcinogen, Immune system, Kidney</td>
</tr>
<tr>
<td>14464-46-1</td>
<td></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: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

WaterTransportation (IMO/IMDG):

- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None
- Marine pollutant: 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.

CERCLA/SARA Section 302 EHS: None.

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

CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to 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 Domestic Substances List.


16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2, 11, 15

Prepared by: Regulatory Affairs

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