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### 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

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	75-85	5 mg/m <sup>3</sup> TWA (mist) 10mg/m <sup>3</sup> STEL (mist)	5 mg/m <sup>3</sup> TWA (mist)	None
Silicon carbide 409-21-2	30-60	0.1 fiber/cm <sup>3</sup> TWA length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination 10 mg/m <sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica 3 mg/m <sup>3</sup> TWA particulate matter containing no asbestos and <1% crystalline silica	15 mg/m <sup>3</sup> TWA total dust 5 mg/m <sup>3</sup> TWA respirable fraction	None
Crystalline silica 14464-46-1	0.1-1	0.025 mg/m <sup>3</sup> TWA	(1/2)(30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) mppcf TWA (Total Dust) (1/2)(250)/(%SiO <sub>2</sub> + 5) mppcf TWA (respirable) (1/2)(10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) mppcf TWA (respirable)	None

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

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

**HMIS:**

**HEALTH:** 1  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

**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.

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**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

**Flash point:** Greater than 93°C (200°F) Cleveland open cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not available

**Flammable/Explosive limits-upper %:** Not available

**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.  
**Eye/face protection:** Safety glasses with side-shields. Goggles.

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  
**Evaporation rate:** Less than butyl acetate.  
**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.  
**Hazardous decomposition products:** Oxides of carbon. Hydrocarbons. Acrid smoke and fumes.  
**Incompatibility:** Strong oxidizing agents.  
**Conditions to avoid:** Elevated temperatures.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	No	Group 1	Yes
Silicon carbide 409-21-2	No	No	No
Crystalline silica 14464-46-1	Known Carcinogen	Group 1	Yes

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	Irritant
Silicon carbide 409-21-2	Nuisance dust
Crystalline silica 14464-46-1	Lung, Human carcinogen, Immune system, Kidney

## 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

**Water Transportation (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/NDL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** D.2.A, D.2.B

### 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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