**Revision Number:** 001.1

**Issue date:** 10/27/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** ViperLube(TM) High Performance Synthetic Grease
**Product type:** Lubricant
**IDH number:** 459782
**Item number:** 37061
**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**

**HMIS:**

| | | | |
|---|---|---|---|
| **Physical state:** | Semi-Solid | **HEALTH:** | 1 |
| **Color:** | White | **FLAMMABILITY:** | 1 |
| **Odor:** | Mild, Petroleum | **PHYSICAL HAZARD:** | 0 |
| | | **Personal Protection:** | See MSDS Section 8 |

CAUTION: MAY CAUSE EYE AND SKIN IRRITATION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** Mist or spray may cause respiratory tract irritation and delayed onset pulmonary edema.
**Skin contact:** May cause irritation due to defatting of the skin.
**Eye contact:** Non-irritating.
**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**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

| Hazardous components | CAS NUMBER | % |
|---|---|---|
| Polyalphaolefins | Proprietary | 30 - 60 |
| Zinc oxide | 1314-13-2 | 5 - 10 |
| Calcium carbonate | 471-34-1 | 5 - 10 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | 5 - 10 |

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:** If high pressure forces the product under the skin get immediate medical attention. Wash with soap and water. If hot material contacts the skin, immediately cool before attempting removal. If symptoms develop and persist, get medical attention.

| | |
|---|---|
| **Eye contact:** | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| **Ingestion:** | Get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. Aspiration may cause pulmonary edema and pneumonitis. |

## 5. FIRE FIGHTING MEASURES

| | |
|---|---|
| **Flash point:** | > 180 °C (> 356°F) |
| **Autoignition temperature:** | Not determined |
| **Flammable/Explosive limits - lower:** | Not available |
| **Flammable/Explosive limits - upper:** | Not available |
| **Extinguishing media:** | Foam. Water fog. Small Fires: Dry chemical. Sand. Large fires: Treat as oil fire. Vermiculite. |
| **Special firefighting procedures:** | Water spray may be ineffective. Oil will float on water and can spread fire. |
| **Unusual fire or explosion hazards:** | None |
| **Hazardous combustion products:** | Oxides of sulfur. Oxides of carbon. |

## 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:** | Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways. |
| **Clean-up methods:** | Clean-up methods - large spillage. Flush with water. Follow all local, state, federal and provincial regulations for disposal. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Handling:** | 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. |

**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 components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|---|---|---|---|
| Polyalphaolefins | 5 mg/m3 TWA mist<br>10 mg/m3 STEL mist | 5 mg/m3 TWA mist | None | None |
| Zinc oxide | 2 mg/m3 TWA Respirable fraction.<br>10 mg/m3 STEL Respirable fraction. | 5 mg/m3 TWA Fume.<br>5 mg/m3 TWA Respirable fraction.<br>15 mg/m3 TWA Total dust. | None | None |
| Calcium carbonate | 10 mg/m3 TWA Total dust. | 5 mg/m3 TWA Respirable fraction.<br>15 mg/m3 TWA Total dust. | None | None |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 5 mg/m3 TWA Mist.<br>10 mg/m3 STEL Mist. | 500 ppm (2,000 mg/m3) TWA | None | None |

**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:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH. Observe OSHA regulations for respiratory use (29 CFR 1910.134).

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Semi-Solid
**Color:** White
**Odor:** Mild, Petroleum
**Odor threshold:** Not available
**pH:** Not available
**Vapor pressure:** < 0.01 mm hg (68 °F (20°C))
**Boiling point/range:** Not available
**Melting point/ range:** Not available
**Specific gravity:** 0.95 - 1.05 at 25 °C (77°F)
**Vapor density:** Not available
**Flash point:** > 180 °C (> 356°F)
**Flammable/Explosive limits - lower:** Not available
**Flammable/Explosive limits - upper:** Not available
**Autoignition temperature:** Not determined
**Evaporation rate:** Not available
**Solubility in water:** Negligible
**Partition coefficient (n-octanol/water):** Not determined
**VOC content:** 28.9 %; 28.9 g/l

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** Oxides of sulfur. Oxides of carbon.

**Incompatible materials:** Oxidizing agents.

**Conditions to avoid:** None known

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Polyalphaolefins | No | No | No |
| Zinc oxide | No | No | No |
| Calcium carbonate | No | No | No |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---|---|
| Polyalphaolefins | No Target Organs |
| Zinc oxide | Blood, Gastrointestinal, Immune system, Irritant, Kidney, Metabolic, Nervous System, Pancreas, Respiratory, Skin |
| Calcium carbonate | Nuisance dust |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Irritant |

## 12. ECOLOGICAL INFORMATION

**Ecological information:**

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 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). Zinc oxide (CAS# 1314-13-2). |
| **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:** | Not controlled |

## 16. OTHER INFORMATION

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

**Prepared by:** Lou Fabrizio, Regulatory Affairs Specialist

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