# Material Safety Data Sheet

**Revision Date:** 04/06/2007 **Issue date:** 04/06/2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** White Hi-Temp Anti-Seize
**Product type:** Lubricant
**Company address:**
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

**Item No. :** 34518 / IDH No. 302678
**Region:** United States
**Contact Information:**
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous components | % | ACGIH TLV | OSHA PEL | OTHER |
|---|---|---|---|---|
| White mineral oil (petroleum)<br>8042-47-5 | 30-60 | 5mg/m³ TWA (mist:)<br>10mg/m³ STEL (mist) | 5mg/m³ TWA (mist:) | None |
| White mineral oil<br>PROPRIETARY | 10-30 | 5mg/m³ TWA (mist),<br>10mg/m³ STEL (mist) | 5mg/m³ TWA (mist) | None |
| Calcium oxide<br>1305-78-8 | 5-10 | 2 mg/m$^3$ TWA | 5 mg/m³ (TWA) | None |
| Silica,mica<br>12001-26-2 | 5-10 | 3 mg/m$^3$ TWA | = 20 mppcf TWA | None |
| Aluminum soap<br>68411-54-1 | 5-10 | None | None | None |
| Calcium fluoride<br>7789-75-5 | 5-10 | 2.5 mg/m$^3$ TWA | 2.5 mg/m³ TWA as F | None |
| Titanium dioxide<br>13463-67-7 | 1-5 | 10 mg/m$^3$ TWA | 15 mg/m³ TWA total dust | None |
| Boron nitride<br>10043-11-5 | 1-5 | None | None | None |
| Silica, quartz<br>14808-60-7 | 0.1-1 | 0.025 mg/m³ TWA<br>respirable fraction | 0.1mg/m³ TWA<br>(respirable) | None |

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**HMIS:**

**Physical state:** Solid
**Color:** Off-white
**Odor:** Mild

**HEALTH:** 2
**FLAMMABILITY:** 1
**PHYSICAL HAZARD:** 0
**Personal Protection:** See Section 8

**CAUTION:** MAY CAUSE EYE AND SKIN IRRITATION.

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

**Potential Health Effects**

**Inhalation:** This product has low volatility and is not expected to cause respiratory tract irrritation during normal conditions of use. May cause respiratory tract irritation.
**Skin contact:** Mild skin irritation.
**Eye contact:** Contact with eyes will cause 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 disorders. Eye, skin, and respiratory disorders. Skin 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 develop and persist. |
| **Eye contact:** | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| **Ingestion:** | Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Obtain medical attention. |

## 5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| **Flash point:** | Not applicable Product is a solid. |
| **Autoignition temperature:** | Not determined |
| **Flammable/Explosive limits-lower %:** | Not determined |
| **Flammable/Explosive limits-upper %:** | Not determined |
| **Extinguishing media:** | Carbon dioxide (CO2). Dry chemical. Foam. Water spray. |
| **Special fire fighting procedures:** | None |
| **Unusual fire or explosion hazards:** | None |
| **Hazardous combustion products:** | Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Oxides of zinc. Hydrogen sulfide. |

## 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Environmental precautions:** | No special environmental precautions required. |
| **Clean-up methods:** | Scrape up as much material as possible. Clean residue with soap and water. Dispose of in accordance with local and national regulations. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Handling:** | Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. |
| **Storage:** | Keep in a cool, well ventilated area. |
| **Incompatible products:** | No information available |

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| **Engineering controls:** | General room ventilation is usually adequate. 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:** | Cover as much of the exposed skin area as possible with appropriate clothing. |
| **Eye/face protection:** | Safety glasses with side-shields. Goggles. |

**See Section 2 for exposure limits.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid
**Color:** Off-white
**Odor:** Mild
**Vapor pressure:** Not determined
**pH:** Not applicable
**Boiling point/range:** Not available
**Melting point/range:** Not available
**Specific gravity:** 1.116
**Vapor density:** Not available
**Evaporation rate:** Not determined
**Solubility in water:** Insoluble.
**Partition coefficient (n-octanol/water):** Not determined
**VOC content:** 0.4%; 4.7 grams/liter

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions

**Hazardous polymerization:** Will not occur.

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

**Incompatability:** Oxidizing agents.

**Conditions to avoid:** Prolonged exposure to heat.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogen Status**

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|---|---|---|---|
| White mineral oil (petroleum)<br>8042-47-5 | No | No | No |
| White mineral oil<br>PROPRIETARY | No | No | No |
| Calcium oxide<br>1305-78-8 | No | No | No |
| Silica,mica<br>12001-26-2 | No | No | No |
| Aluminum soap<br>68411-54-1 | No | No | No |
| Calcium fluoride<br>7789-75-5 | No | No | No |
| Titanium dioxide<br>13463-67-7 | No | Group 2B | Yes |
| Boron nitride<br>10043-11-5 | No | No | No |
| Silica, quartz<br>14808-60-7 | Known Carcinogen | Group 1 | Yes |

**Literature Referenced Target Organ & Other Health Effects**

| Hazardous components | Health Effects/Target Organs |
|---|---|
| White mineral oil (petroleum)<br>8042-47-5 | Irritant |
| White mineral oil<br>PROPRIETARY | No data |
| Calcium oxide<br>1305-78-8 | Irritant, Eyes, Corrosive |
| Silica,mica<br>12001-26-2 | Lung |
| Aluminum soap<br>68411-54-1 | No data |
| Calcium fluoride<br>7789-75-5 | Muscle, Respiratory, Teeth |
| Titanium dioxide<br>13463-67-7 | Irritant, Respiratory |
| Boron nitride<br>10043-11-5 | Corrosive, Irritant |
| Silica, quartz<br>14808-60-7 | Some evidence of carcinogenicity, Lung, Immune system |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

## 13. DISPOSAL CONSIDERATIONS

**Information provided is for unused product only.**

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental 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:** Unrestricted
**Hazard class or division:** None
**Identification number:** None
**Packing group:** None
**Marine pollutant:** Copper

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Unrestricted
**Hazard class or division:** None
**Identification number:** None
**Packing group:** None

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Unrestricted
**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:** Contains one or more components listed on the Non-Domestic Substances list. Those components must be tracked by all Canadian Importers of Record as required by the Canadian Environmental Protection Agency. They may be imported into Canada in limited quantities. Please contact Product Safety and Regulatory Affairs for details.
**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:** 15

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

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