



Revision Number: 002.1

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Heavy Duty Anti-Seize  
**Product type:** Lubricant  
**Company address:** Henkel Corporation  
 1001 Trout Brook Crossing  
 Rocky Hill, Connecticut 06067  
**IDH number:** 234351  
**Item number:** 51608  
**Region:** United States  
**Contact information:**  
 Telephone: 860.571.5100  
 Emergency telephone: 860.571.5100  
 Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Paste	<b>HEALTH:</b>	1
<b>Color:</b>	Grey	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Characteristic	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

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

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

**Potential Health Effects**

**Inhalation:** May cause respiratory tract irritation. This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use.  
**Skin contact:** Prolonged or repeated contact may cause 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, 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	%
Ca-fluoride	7789-75-5	10 - 30
Graphite	7782-42-5	10 - 30
Calcium distearate	1592-23-0	5 - 10
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 - 10
Mineral oil light naphthenic hydrotreat. <3% DMSO	64742-53-6	5 - 10
Calcium dodecylbenzene sulfonate	26264-06-2	1 - 5
Silica	7631-86-9	0.1 - 1

**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:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** Get medical attention. Aspiration may cause pulmonary edema and pneumonitis. Do not induce vomiting.

## 5. FIRE FIGHTING MEASURES

**Flash point:** > 93 °C (> 199.4 °F)

**Autoignition temperature:** Not determined

**Flammable/Explosive limits - lower:** Not determined

**Flammable/Explosive limits - upper:** Not determined

**Extinguishing media:** Foam. Dry chemical. Carbon dioxide. Water spray or fog. Foam. Dry chemical. Carbon dioxide. Water spray or fog.

**Special firefighting procedures:** None None

**Unusual fire or explosion hazards:** None None

**Hazardous combustion products:** Oxides of carbon.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:** Do not allow material to contaminate ground water system.

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

**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
Ca-fluoride	2.5 mg/m3 TWA (as F)	2.5 mg/m3 TWA Dust. 2.5 mg/m3 TWA (as F)	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA	None	None
Calcium distearate	10 mg/m3 TWA 3 mg/m3 TWA Respirable fraction.	None	None	None
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Mineral oil light naphthenic hydrotreat. <3% DMSO	5 mg/m3 TWA Mist. 10 mg/m3 STEL Mist.	500 ppm (2,000 mg/m3) TWA	None	None
Calcium dodecylbenzene sulfonate	None	None	None	None
Silica	10 mg/m3 TWA 3 mg/m3 TWA Respirable fraction. 6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.

**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:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

**Eye/face protection:**

Goggles. Safety glasses with side-shields.

**Skin protection:**

Cover as much of the exposed skin area as possible with appropriate clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Grey
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	Not available
<b>Boiling point/range:</b>	550 °F (287.8 °C) none
<b>Melting point/ range:</b>	Not available
<b>Specific gravity:</b>	1.18
<b>Vapor density:</b>	Heavier than air.
<b>Flash point:</b>	> 93 °C (> 199.4 °F)
<b>Flammable/Explosive limits - lower:</b>	Not determined
<b>Flammable/Explosive limits - upper:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	Essentially Zero (Exempt Compounds)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Hydrocarbons. Oxides of carbon.
<b>Incompatible materials:</b>	Oxidizing agents.
<b>Conditions to avoid:</b>	None known

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ca-fluoride	No	No	No
Graphite	No	No	No
Calcium distearate	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Mineral oil light naphthenic hydrotreat. <3% DMSO	No	No	No
Calcium dodecylbenzene sulfonate	No	No	No
Silica	No	No	No

Hazardous components	Health Effects/Target Organs
Ca-fluoride	Teeth, Muscle, Respiratory
Graphite	Lung
Calcium distearate	No Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
Mineral oil light naphthenic hydrotreat. <3% DMSO	Irritant
Calcium dodecylbenzene sulfonate	Eyes, Irritant
Silica	Nuisance dust

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	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.
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### 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:** None above reporting de minimus  
**California Proposition 65:** This product contains a chemical known in 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 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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