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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Heavy Duty Anti-Seize Metal-Free Lubricant
Product type: Lubricant
Company address: Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 51609
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Lubricant base oil UNKNOWN	30-60	None	None	None
Calcium fluoride 7789-75-5	10-30	2.5 mg/m ³ TWA as F	2.5 mg/m ³ TWA as F	None
Graphite 7782-42-5	10-30	2 mg/m ³ TWA respirable fraction, all forms except graphite fibers	15 mg/m ³ (total), 5 mg/m ³ (respirable)	None
Calcium sulfonate complex thickener UNKNOWN	10-30	None	None	None
Calcium stearate 1592-23-0	5-10	10 mg/m ³ TWA	None	None
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	5-10	5 mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	5 mg/m ³ TWA (mist)	None
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	5-10	5 mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	5 mg/m ³ TWA (mist)	None
Benzenesulfonic acid, dodecyl, calcium salt 26264-06-2	1-5	None	None	None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****HMIS:**

Physical state: Paste
Color: Brown
Odor: Mild petroleum

HEALTH: 1
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

Item No. : 51609

Product name: Heavy Duty Anti-Seize Metal-Free Lubricant

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.

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: Greater than 93°C (200°F)
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.

6. ACCIDENTAL RELEASE MEASURES

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. 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: Oxidizing agents.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure 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).
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:	Paste
Color:	Brown
Odor:	Mild petroleum
Vapor pressure:	Not determined
pH:	Not applicable
Boiling point/range:	288°C (550°F)
Melting point/range:	Not available
Specific gravity:	1.17999
Vapor density:	Heavier than air
Evaporation rate:	Not determined
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Essentially Zero (Exempt Compounds)

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Hydrocarbons.
Incompatibility:	Oxidizing agents.
Conditions to avoid:	None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Lubricant base oil UNKNOWN	No	No	No
Calcium fluoride 7789-75-5	No	No	No
Graphite 7782-42-5	No	No	No
Calcium sulfonate complex thickener UNKNOWN	No	No	No
Calcium stearate 1592-23-0	No	No	No
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	No	No	No
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	No	No	No
Benzenesulfonic acid, dodecyl, calcium salt 26264-06-2	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Lubricant base oil UNKNOWN	No data
Calcium fluoride 7789-75-5	Muscle, Respiratory, Teeth
Graphite 7782-42-5	Lung
Calcium sulfonate complex thickener UNKNOWN	No data
Calcium stearate 1592-23-0	No Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	Irritant
Distillates (petroleum), hydrotreated light naphthenic 64742-53-6	Irritant
Benzenesulfonic acid, dodecyl, calcium salt 26264-06-2	Eyes, Irritant

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

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

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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
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). None.

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.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

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

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