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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Nickel Grade Anti-Seize	Item No. : 77164
Product type: Lubricant	Region: United States
Company address: Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	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>
Petroleum Distillates Proprietary	30-60	5 mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	5 mg/m ³ TWA (mist)	None
Nickel 7440-02-0	10-30	1.5 mg/m ³ TWA inhalable fraction	1 mg/m ³ TWA	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
Sodium Sulfonate Proprietary	1-5	None	None	None
Aluminum 7429-90-5	1-5	10 mg/m ³ TWA metal dust 5 mg/m ³ TWA as Al	15 mg/m ³ TWA (total), 5 mg/m ³ (respirable)	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste	HEALTH:	1
Color: Grey	FLAMMABILITY:	1
Odor: Petroleum	PHYSICAL HAZARD:	0
	Personal Protection:	See Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE IRRITATION.

Relevant routes of exposure: Skin, Eyes

Potential Health Effects

Inhalation:	Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin contact:	May cause allergic skin reaction. Repeated or prolonged contact may lead to skin irritation, dermatitis or oil acne.
Eye contact:	Contact with eyes will cause irritation.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Eye disorders. Skin disorders.

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See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Get medical attention if symptoms develop and persist.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion:	Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Obtain medical attention.
Notes to physician:	Aspiration may cause pulmonary edema or aspiration pneumonia.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Carbon dioxide (CO ₂). Dry chemical. Foam.
Special fire fighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Metal vapors Oxides of carbon. Oxides of aluminum. Oxides of nickel

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent further leakage or spillage. Contain spill.
Clean-up methods:	Scrape up Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapors. Wash thoroughly after handling.
Storage:	Keep container closed. Keep in a cool, well ventilated area. Store away from heat, sparks, flames, or other sources of ignition.
Incompatible products:	No special restrictions on storage with other products.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established 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 or oil resistant gloves

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Grey
Odor: Petroleum
Vapor pressure: Less than 5 mm Hg at 26.6°C (80°F)
pH: Not applicable
Boiling point/range: Not available
Melting point/range: Not available
Specific gravity: 1.1
Vapor density: Not available
Evaporation rate: Not available
Solubility in water: Negligible
Partition coefficient (n-octanol/water): Not available
VOC content: 2.47%; 27 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: No data available

Incompatibility: Strong oxidizing agents.

Conditions to avoid: No data available

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Petroleum Distillates Proprietary	No	No	No
Nickel 7440-02-0	Known Carcinogen Suspect Carcinogen	Group 2B	Yes
Graphite 7782-42-5	No	No	No
Sodium Sulfonate Proprietary	No	No	No
Aluminum 7429-90-5	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Petroleum Distillates Proprietary	Irritant
Nickel 7440-02-0	Allergen, Human carcinogen, Irritant, Kidney, Mutagen, Reproductive, Respiratory
Graphite 7782-42-5	Lung
Sodium Sulfonate Proprietary	No Target Organs
Aluminum 7429-90-5	Central nervous system, Irritant, Lung

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: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

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

Water Transportation (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:	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). Nickel (CAS# 7440-02-0). Aluminum (CAS# 7429-90-5) (dust and fumes only).
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer. Nickel (CAS# 7440-02-0). Nickel carbide (CAS# 12710-36-0). Nickel oxide (CA# 1313-99-1).

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.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

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