



Revision Number: 002.3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite(R) Nickel Grade Anti-Seize	IDH number:	234296
Product type:	Lubricant	Item number:	51286
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Aerosol, liquid	HEALTH:	2
Color:	Gray	FLAMMABILITY:	4
Odor:	mild, Petroleum	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

DANGER: EXTREMELY FLAMMABLE.
 CONTENTS UNDER PRESSURE.
 HARMFUL IF INHALED.
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation:	Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. May cause irritation to nose and throat. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness. Extreme overexposure may result in unconsciousness and possibly death. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Skin contact:	May cause irritation due to defatting of the skin.
Eye contact:	Direct spray or vapors will irritate and may harm eyes.
Ingestion:	Not expected under normal conditions of use.

Existing conditions aggravated by exposure: Not available.

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	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 30
n-Hexane	110-54-3	10 - 30
n-Heptane	142-82-5	10 - 30
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
Nickel	7440-02-0	5 - 10
Graphite	7782-42-5	1 - 5
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 - 5
Aluminum not powder, dust or fume	7429-90-5	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If adverse health effects develop seek medical attention.
Skin contact:	Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
Eye contact:	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
Ingestion:	Do not induce vomiting. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash point:	< -17.7 °C (< 0.14 °F) ; (value for propellant).
Flashback:	This product exhibits flashback when tested for flame extension.
Flame projection:	122.00 cm (48.03 inch)
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Carbon dioxide. Dry chemical. foam
Special firefighting procedures:	Use water spray to keep fire exposed containers cool and disperse vapors. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Contents under pressure. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture or incinerate pressurized containers. Exposure to temperatures above 49°C (120°F) may cause container to burst.
Hazardous combustion products:	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 to enter in surface / ground water.
Clean-up methods:	Remove the absorbed material, and place in an appropriate chemical waste container for disposal. Ventilate area.

7. HANDLING AND STORAGE

Handling: Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing. Keep away from heat, spark and flame. Vapors will accumulate readily and may ignite explosively. Ensure adequate ventilation.

Storage: Not available.

Shelf Life Statement: Not available.

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
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.	None	None
n-Hexane	(SKIN) 50 ppm TWA	500 ppm (1,800 mg/m3) TWA	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) TWA	None	None
Butane	1,000 ppm TWA	None	None	None
Propane	1,000 ppm TWA	1,000 ppm (1,800 mg/m3) TWA	None	None
Nickel	1.5 mg/m3 TWA Inhalable fraction.	1 mg/m3 TWA (as Ni)	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
Distillates (petroleum), hydrotreated heavy paraffinic	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Aluminum not powder, dust or fume	1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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 goggles or safety glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol, liquid
Color: Gray
Odor: mild, Petroleum
Odor threshold: Not available.
pH: Not available.
Vapor pressure: Not available.
Boiling point/range: 0 - 212 °F (-17.8 - 100°C) None
Melting point/ range: Not available.

Specific gravity:	0.77
Vapor density:	Not available.
Flash point:	< -17.7 °C (< 0.14 °F) ; (value for propellant).
Flashback:	This product exhibits flashback when tested for flame extension.
Flame projection:	122.00 cm (48.03 inch)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Evaporation rate:	Not available.
Solubility in water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	82.00 %; 582 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Irritating organic vapours. Oxides of carbon.
Incompatible materials:	Oxidizing agents.
Conditions to avoid:	Keep away from heat, spark and flame. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum), hydrotreated heavy naphthenic	Known carcinogen.	Group 1	No
n-Hexane	No	No	No
n-Heptane	No	No	No
Butane	No	No	No
Propane	No	No	No
Nickel	Anticipated carcinogen.	Group 2B	No
Graphite	No	No	No
Distillates (petroleum), hydrotreated heavy paraffinic	No	No	No
Aluminum not powder, dust or fume	No	No	No

Hazardous components	Health Effects/Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
n-Hexane	Developmental, Irritant, Lung, Nervous System, Reproductive
n-Heptane	Central nervous system, Irritant
Butane	Cardiac, Central nervous system, Irritant
Propane	Cardiac, Central nervous system, Irritant
Nickel	Allergen, Carcinogen, Irritant, Kidney, Mutagen, Reproductive, Respiratory
Graphite	Lung
Distillates (petroleum), hydrotreated heavy paraffinic	Irritant
Aluminum not powder, dust or fume	Central nervous system, Irritant, Lung

12. ECOLOGICAL INFORMATION

Ecological information:	Do not empty into drains / surface water / ground water.
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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
DOT Reportable quantity: Nickel, Benzene

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
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: N-Heptane (CAS# 142-82-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Fire, Pressure, Immediate Health, Delayed 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). n-Hexane (CAS# 110-54-3). Nickel (CAS# 7440-02-0).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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: A, B.5, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New information added in Section(s): 5

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