

Revision Date: 01/29/2008

Issue date: 01/29/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Nickel Grade Anti-Seize
Product type: Lubricant
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 51286 / IDH No. 234296
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>
Petroleum Distillates Proprietary	10-30	5 mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	5 mg/m ³ TWA (mist)	None
n-Hexane 110-54-3	10-30	50 ppm TWA 500 ppm TWA other than n-Hexane 1000 ppm STEL other than n-Hexane (skin)	1800 mg/m ³ TWA 500 ppm TWA	None
n-Heptane 142-82-5	10-30	400 ppm TWA 500 ppm STEL	2000 mg/m ³ TWA 500 ppm TWA	None
Butane 106-97-8	10-30	1000 ppm TWA	800 ppm TWA	None
Propane 74-98-6	10-30	1000 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Nickel 7440-02-0	5-10	1.5 mg/m ³ TWA	1 mg/m ³ TWA	None
Graphite 7782-42-5	1-5	2 mg/m ³ TWA all forms except graphite fibers	15 mg/m ³ (total), 5 mg/m ³ (respirable)	None
Sodium petroleum sulfonates Proprietary	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Aerosol
Color: Grey
Odor: Solvent

HMIS:

HEALTH: 2
FLAMMABILITY: 4
PHYSICAL HAZARD: 1
Personal Protection: See Section 8

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

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Item No. : 51286 / IDH No. 234296

Inhalation: 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. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. 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. May cause allergic skin reaction.

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: 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: Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if symptoms occur. Wash clothing before reuse.

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

Ingestion: Do not induce vomiting. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: Less than -17.7°C (0°F) (Propellant)

Flashback: Not evaluated

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Foam. Dry chemical. Carbon dioxide (CO2).

Special fire fighting procedures: Water spray may be ineffective. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

Unusual fire or explosion hazards: Contents under pressure. Do not store or use near heat, spark, open flame 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

Environmental precautions: Remove sources of ignition. Ventilate area.

Clean-up methods: Soak up with inert absorbent. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame. Vapors will accumulate readily and may ignite explosively.
- Storage:** Keep in a cool, well ventilated area. Store away from ignition sources. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.
- Incompatible products:** None.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 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).
- Skin protection:** Chemical resistant, impermeable 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:	Aerosol
Color:	Grey
Odor:	Solvent
Vapor pressure:	Not available
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	Not available
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Not determined
Partition coefficient (n-octanol/water):	Not available
VOC content:	Not available

10. STABILITY AND REACTIVITY

- Stability:** Stable
- Hazardous polymerization:** Will not occur.
- Hazardous decomposition products:** Oxides of carbon.
- Incompatibility:** Strong oxidizers.
- Conditions to avoid:** Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Petroleum Distillates Proprietary	No	No	No
n-Hexane 110-54-3	No	No	No
n-Heptane 142-82-5	No	No	No
Butane 106-97-8	No	No	No
Propane 74-98-6	No	No	No
Nickel 7440-02-0	Known Carcinogen Suspect Carcinogen	Group 2B	Yes
Graphite 7782-42-5	No	No	No
Sodium petroleum sulfonates Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Petroleum Distillates Proprietary	Irritant
n-Hexane 110-54-3	Developmental, Irritant, Lung, Nervous System, Reproductive
n-Heptane 142-82-5	Central nervous system, Irritant
Butane 106-97-8	Cardiac, Central nervous system, Irritant
Propane 74-98-6	Cardiac, Central nervous system, Irritant
Nickel 7440-02-0	Allergen, Human carcinogen, Irritant, Kidney, Mutagen, Reproductive, Respiratory
Graphite 7782-42-5	Lung
Sodium petroleum sulfonates Proprietary	No Target Organs

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Do not incinerate. Depressurize cans. Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

14. TRANSPORT INFORMATION

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

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: (Not more than 1 Liter) Consumer Commodity ORM-D

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable

Item No. : 51286 / IDH No. 234296

Product name: Loctite(R) Nickel Grade Anti-Seize

Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: (Not more than 500mL) ID8000

WaterTransportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: Limited quantity (Not more than 1 L)

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 (142-82-5).

CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire
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). n-Hexane (CAS# 110-54-3).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and 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 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: 2, 11, 15

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

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.