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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Gear, Chain & Cable Lubricant	Item number: 81251
Product type: Lubricant	Region: United States
Company address: Henkel Loctite 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 Oil	60-100	5mg/m ³ TWA (mist) 10mg/m ³ STEL (mist)	5mg/m ³ TWA (mist)	None
Propane 74-98-6	10-30	2500 ppm TWA	1000 ppm TWA 1800 mg/m ³ TWA	None
Butane 106-97-8	10-30	800 ppm TWA	800 ppm TWA	None
Barium sulfate 7727-43-7	1-5	0.5 mg/m ³ TWA (as Ba) 0.5 mg/m ³ TWA 10 mg/m ³ TWA	0.5 mg/m ³ TWA 0.5 mg/m ³ TWA (as Ba) 15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Aerosol	HEALTH:	2
Color: Clear	FLAMMABILITY:	4
Odor: Mild petroleum	PHYSICAL HAZARD:	0
	Personal Protection:	See Section 8

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
HARMFUL IF INHALED.
HARMFUL OR FATAL IF SWALLOWED.
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION

Relevant routes of exposure: Skin, inhalation, eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation. Overexposure may cause nervous system depression. Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Extreme overexposure may result in unconsciousness and possibly death.

Skin contact: Itching. Redness. Burning sensation.

Eye contact: Redness. Burning sensation. Non-irritating

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Ingestion: Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Existing conditions aggravated by exposure: None generally recognized.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Restore breathing. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. 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. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: Less than -17.8°C (0°F) (Propellant)

Autoignition temperature: Not determined

Flammable/Explosive limits-lower %: 1.0

Flammable/Explosive limits-upper %: 9.5

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

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. 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.

Unusual fire or explosion hazards: Contents under pressure. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Fumes and vapors from thermal decompositions vary in composition and toxicity. May decompose above 149°C (300°F). May polymerize above 260°C (500°F) in which case closed containers may rupture or explode.

Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Ventilate area.

Clean-up methods: Soak up with inert absorbent. Dispose of in accordance with local and national regulations.

7. HANDLING AND STORAGE

- Handling:** Keep away from heat, spark and flame. Vapors will accumulate readily and may ignite explosively. Do not puncture or incinerate containers. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition.
- Storage:** Contents under pressure. 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:** Do not store with oxidizing materials.

For information on product shelf life contact Henkel Loctite 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 for protection against materials in Section 2. Observe OSHA regulations for respiratory use (29 CFR 1910.134).
- Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact.
- 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: Clear
Odor: Mild petroleum
Vapor pressure: Not available
pH: Not applicable
Boiling point/range: Less than -18 to -211°C (0 to -412°F)
Melting point/range: Not available
Specific gravity: 0.77
Vapor density: Heavier than air
Evaporation rate: Faster than ether
Solubility in water: No data available
Partition coefficient (n-octanol/water): Not determined
VOC content: 35%

10. STABILITY AND REACTIVITY

- Stability:** Stable.
- Hazardous polymerization:** Will not occur.
- Hazardous decomposition products:** Oxides of carbon.
- Incompatibility:** None known.
- Conditions to avoid:** None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Item number: 81251

Product name: Gear, Chain & Cable Lubricant

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Petroleum Oil	No	No	No
Propane	No	No	No
Butane	No	No	No
Barium sulfate	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Petroleum Oil	No data
Propane	Cardiac, Central nervous system, Irritant
Butane	Cardiac, Central nervous system, Irritant
Barium sulfate	Lung

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Depressurize cans. Do not incinerate. 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
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None
Exceptions: (Not more than 500 ml) Consumer Commodity ID8000

Water Transportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
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, 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). Barium Sulfate (CAS# 7727-43-7).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

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: B.1, B.5, 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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