



Material Safety Data Sheet

Chain Lube

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Chain Lube
Part number TNDS8048

Product Family Grease solution (non-chlorinated)
Manufacturer Shrader Canada Limited
830 Progress Court
Oakville, ON L6L 6K1
+1.905.847.0222
www.shradercanada.com

Emergency Contact Information CANUTEC, +1.613.996.6666, Operation hours: 24/7

Use Chain lubricant

2. HAZARDS IDENTIFICATION

Potential Health Effects

Inhalation At high concentrations: can harm the nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Contact May cause mild irritation.

Eye Contact May cause mild irritation.

Ingestion If large amounts are ingested: Can cause effects as described for inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Heptane	64742-49-0	40-70	Naphtha (petroleum), hydrotreated light
Liquified petroleum gas	68476-85-7	10-30	
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	5-10	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	3-7	
Hydrotreated, heavy naphthenic distillate	64742-52-5	1-5	
Residual oils (petroleum), solvent de-waxed	64742-62-7	1-5	
Lithium carboxylates	Proprietary	1-5	
Zinc C1-C14 alkyldithiophosphate	68649-42-3	0.1-1.0	

4. FIRST AID MEASURES

First Aid Procedures

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Inhalation	Move victim to fresh air. Call a Poison Centre or doctor if the victim feels unwell.
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. Call a Poison Centre or doctor if the victim feels unwell.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. If irritation or pain persists, see a doctor.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Immediately call a Poison Centre or doctor.

5. FIRE FIGHTING MEASURES

Flammable Properties	FLAMMABLE AEROSOL.
Suitable Extinguishing Media	Carbon dioxide, dry chemical powder or appropriate foam.
Unsuitable Extinguishing Media	DO NOT use water or water-based extinguishing agents.
Specific Hazards Arising from the Chemical	Liquid can float on water and may travel to distant locations and/or spread fire. Gas or vapour may travel a considerable distance to a source of ignition and flash back to a leak or open container. Closed containers may rupture violently when heated releasing contents. Very toxic carbon monoxide, carbon dioxide; corrosive sulfur oxides; corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides. and other unidentified organic compounds.
Protective Equipment and Precautions for Firefighters	Use extreme caution. Evacuate area. Fight fire from a safe distance or a protected location.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Use grounded, explosion-proof equipment. Remove or isolate incompatible materials as well as other hazardous materials. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.
Environmental Precautions	Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.
Methods for Containment and Clean-up	Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. In the event of a spill or leak, exit the area immediately. Only use where there is adequate ventilation.
Storage	Store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH® TLV®		OSHA PEL			
	TWA	STEL [C]	TWA	Ceiling		

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Distillates (petroleum), hydrotreated heavy paraffinic	5 mg/m3 A4	Not established	5 mg/m3	Not established		
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Engineering Controls Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.

Personal Protective Equipment (PPE)

Eye/Face Protection Safety glasses with side shields.

Skin Protection Wear chemical protective clothing e.g. gloves, aprons, boots. Suitable materials are: neoprene rubber, nitrile rubber.

Respiratory Protection Not normally required if product is used as directed.

General Hygiene Considerations It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Aerosol.
Odour	Petroleum
Odour Threshold	Not available
Boiling Point	Not available
Relative Density (water = 1)	0.78 at 15 °C
Solubility in Water	Negligible
pH	Not applicable
Partition Coefficient, n-Octanol/Water	Not available
Viscosity-Kinematic	1.23 centistokes at 40°C
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Evaporation Rate	Not available
Flash Point	-4 °C
Lower Flammable/Explosive Limit	Not available
Upper Flammable/Explosive Limit	Not available
Auto-ignition Temperature	Not available
Flame projection	> 100 cm
NFPA Classification	Aerosol, level 3

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	Open flames, sparks, static discharge, heat and other ignition sources.
Incompatible Materials	Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).
Hazardous Decomposition Products	Very toxic carbon monoxide, carbon dioxide; corrosive sulfur oxides; corrosive, oxidizing nitrogen oxides; corrosive phosphorous oxides. and other unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

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LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Heptane	Not available	5000 mg/kg	2000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Not available	> 15000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Hydrotreated, heavy naphthenic distillate	2180 mg/m3 (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Residual oils (petroleum), solvent de-waxed	> 2180 mg/m3 (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)

Skin Irritation/Corrosion

There is limited evidence of mild irritation.

Eye Irritation/Corrosion

There is limited evidence of mild irritation.

Effects of Short-Term (Acute) Exposure

Inhalation

May cause nose and throat irritation.

Skin Absorption

No information was located.

Ingestion

No information was located.

Effects of Long-Term (Chronic) Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Liquified petroleum gas	Not Listed	Not Listed	Not Listed	Not Listed
Distillates (petroleum), hydrotreated heavy paraffinic	A4	Group 3	Not Listed	Not Listed

No information was located for: Carcinogenicity, Teratogenicity / Embryotoxicity, Reproductive Toxicity, Mutagenicity, Toxicologically Synergistic Materials

12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life.

13. DISPOSAL CONSIDERATIONS

The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. Dispose of in accordance with municipal, provincial/state or federal regulations.

14. TRANSPORT INFORMATION

Shipping Information

Regulation	UN No.	Shipping Name	Class	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
IMDG	UN1950	Aerosols	2.1	---
ICAO/IATA	UN1950	Aerosols, flammable	2.1	---

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Other Transport Information

Special Shipping Information Not applicable

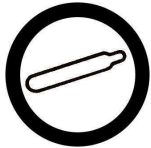
Emergency Response Guide No. 126 EmS F-D, S-U

Other Information Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.
ICAO/IATA PI Y203/203

15. REGULATORY INFORMATION

Canada

WHMIS Classification



Class A



Class B5



Class D2B

A - Compressed Gas; B5 - Flammable Aerosol; D2B - Toxic

16. OTHER INFORMATION

NFPA Rating Health - 2 Flammability - 3 Instability - 4

MSDS Prepared By Regulatory Compliance

Phone No. 800.201.9486

Date of Preparation January 18, 2018

Key to Abbreviations ACGIH® = American Conference of Governmental Hygienists

CANUTEC = Canadian Transport Emergency Centre

CAS = Chemical Abstract Service

CCOHS = Canadian Centre for Occupational Health & Safety

CNS = Central nervous system

GESTIS = GESTIS Substance Database

HSDB® = Hazardous Substances Data Bank

IARC = International Agency for Research on Cancer

ICAO = International Civil Aviation Organization

IMDG = International Maritime Dangerous Goods Code

LC = Lethal concentration

LC = Lethal dose

NFPA = National Fire Protection Association

NTP = National Toxicology Program

OSHA = US Occupational Safety and Health Administration

PPM = Parts per million

RTECS® = Registry of Toxic Effects of Chemical Substances

STEL = Short term exposure limit

TDG = Transportation of Dangerous Goods Regulations (Canada)

TWA = Time weighted average

References Material safety data sheet from manufacturer.

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

ECHA - European Chemical Agency, Classification and Labelling Inventory

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GESTIS Substance Database

OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

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