

SAFETY DATA SHEET

Section 1 Identification

GHS Product Identifier:	XL0LC1 Semi-synthetic lithium complex grease.
Product family:	Hydrocarbons.
Synonyms:	Lithium complex grease.
Recommended use:	General purpose grease formulated specifically to meet the requirements for moderate to heavy loads.
Restriction on use:	Data not available.
Manufacturer Identification:	Thermal-Lube Inc. 255 Ave. Labrosse, Pointe-Claire, Québec H9R 1A3 Tel : 1-800-567-5823 Fax : 514-694-8628 email: info@thermal-lube.com
Emergency telephone number:	Emergency: CANUTEC 613-996-6666

Section 2 Hazard Identification

<u>Classification of the substance or mixture</u>	
Substances:	Not applicable.
Classification:	Not applicable.
<u>GHS label elements</u>	
Hazard pictograms:	Not applicable.
Signal word:	Not applicable.
Hazard statements:	This product is considered non-hazardous as per WHMIS regulations.
Precautionary statements:	Ingredients not controlled and not hazardous.

Section 3 Composition/Information on Ingredients

CAS number/other identifiers

Ingredient name	Concentration (%)	CAS Number
Not controlled	-	-

All components in this product do not have any known health hazards or are present below their cut-off concentration limits; therefore they do not need to be listed in this section.

Section 4 First Aid Measures

First-aid measures by route of exposure:

Skin contact:	Remove excess from skin, and wash using plenty of water and mild soap for minimum 15 minutes. Remove contaminated clothing, and launder prior to re-use. Seek medical attention if irritation develops and persists.
Eye contact:	Remove contact lenses. Flush eye with plenty of water for minimum 15 minutes, holding upper and bottom eyelids open. Seek medical attention immediately if irritation develops.
Inhalation:	Remove person to fresh air. Provide oxygen and/or artificial respiration if breathing is difficult or not apparent. Seek medical advice immediately if needed. Do not give mouth to mouth respiration. If breathing has ceased, apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Ingestion:	Do not induce vomiting unless advised by medical personnel. Keep victim calm and warm. If vomiting occurs, keep head below hips. Never give anything by mouth to an unconscious person.

Most important symptoms effects (acute or delayed)

Potential acute health effects

Skin contact:	May cause skin irritation.
Eye contact:	Slightly irritating to the eyes.
Inhalation:	No known significant effects of critical hazards.
Ingestion:	No known significant effects of critical hazards.

Effects of chronic exposure:

May cause skin and eye irritation.

Immediate medical attention and special treatment, if necessary

Notes to physician:	Treat symptomatically.
Specific treatments:	No specific treatment.

Section 5 Fire-Fighting Measures

Recommended extinguishing media:	Carbon dioxide, dry chemical, foam, water-fog, earth or sand.
Non-recommended extinguishing media:	Do not use direct stream of water as fire will spread. Instead, use water mist only to cool over-heated / burning containers.
Hazardous products of combustion:	Carbon oxides (CO _x), unidentified organic compounds, nitrogen oxides (NO _x), sulfur oxides (SO _x), metal oxides, and irritating smoke from incomplete combustion. Toxic fumes may be emitted during combustion.
Special protective equipment for fire fighters:	Special equipment not specified.

Section 6

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Do not take any measures that might put personal safety at risk. Keep people away from affected area. Do not touch or walk through spilled material. Wear appropriate respiratory device, and appropriate personal protective equipment (see section 8).

Methods and materials for containment/cleaning up

Spill procedures:

Do not attempt intervention if potential threat to personal safety. Move containers from spill area. Dilute with water and mop up if water-soluble, Alternatively, or if water-insoluble, absorb with an inert dry material (e.g. earth, sand, vermiculite, etc.) and sweep up or shovel and place in container for disposal according with provincial/state and local environmental regulations. Follow disposal methods (see section 13). Dispose of via a licensed waste disposal contractor if required. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7

Handling and Storage

Precautions for safe handling:

Keep product away from excessive heat and avoid formation and breathing of mist, or prolonged / repeated exposure to the skin. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands and face with soap and water prior to eating, drinking, smoking, using the toilet, or leaving the premises. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Precautions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and potential sources of ignition or high heat, food and drink. Keep containers tightly sealed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8

Exposure Controls / Personal Protection

Exposure controls:

Ingredient	OSHA STEL	OSHA PEL	OSHA TWA	ACGIH STEL	ACGIH TVL/TWA
Zinc Alkyl-dithiophosphate					5 mg/m ³ (Inhalable fraction)

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other type of engineering controls to keep worker exposure below any recommended limits.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Personal Protection:

Personnel should wear safety glasses to avoid particulates, an approved chemical cartridge respirator with organic vapour cartridges and particulate filter when product is heated, face shields, long pants, chemical resistant gloves (e.g. neoprene, nitrile, polyvinyl alcohol (PVA), Viton, etc.), and safety boots.

Personal protective equipment (Pictograms):



Section 9

Physical and Chemical Properties

Appearance:	Semi-solid, paste.
Color	Beige.
Odour:	Odourless.
Odour threshold:	Odourless.
pH:	Not available.
Freezing/Melting point:	-45°C / 150°C
Boiling/Condensation point:	Not available.
Flash point:	235 °C, ASTM D-92
Evaporation rate:	Not available.
Lower flammable limit:	Not available.
Upper flammable limit:	Not available.
Vapour pressure:	Not available.
Vapor density:	Not available.
Relative Density:	0.90 @ 16°C
Solubility in water:	Not soluble.
N-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Standard NLGI grades.

Section 10

Stability and Reactivity

Reactivity:	This product will not react under normal storage and handling conditions. Reactivity will occur with oxidizing agents.
Chemical stability:	This product is stable under normal ambient temperature and conditions while in storage and being handled.
Hazardous Reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Product Incompatibility:	Avoid all oxidizing agents, strong acids and bases, sparks or any other potential sources of ignition.
Hazardous decomposition products:	Carbon oxides (CO _x), oxides of sulfur, and other irritating vapors at combustion temperatures.

Section 11 Toxicological Information

Information of toxicological effects

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
Zinc Alkyl-dithiophosphate	Data not available	N/A	N/A	N/A

Information on the likely routes of exposure:

Dermal contact, eye contact, inhalation and ingestion.

Potential acute health effects

Skin contact: Slightly irritating to the skin.
Eye contact: May cause eye irritation.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and/or toxicological characteristics

Skin contact: Slightly irritating to the skin.
Eye contact: Slightly irritating to the eyes.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects, and chronic effects from short and long term exposure

Short-term exposure

Potential immediate effects: Mild skin and eye irritation.
Potential delayed effects: No known significant effects or critical hazards.

Long-term exposure

Potential immediate effects: Prolonged skin contact can lead to a coetaneous irritation.
Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects:

General: Over-drying, and skin irritation.
Reproductive toxicity: No data available.
Carcinogenicity: No known carcinogens as defined by OSHA or IARC.
Mutagenicity: No known mutagens as defined by OSHA or IARC.
Teratogenicity: No data available.
Numerical measures of toxicity: There is no data available.

Section 12 Ecological Information

Ecotoxicity

Atmosphere: Not available.

Water: Not available.

Soil: Not available.

Persistence/degradability: Not readily biodegradable.

Bioaccumulative potential: Not readily biodegradable.

Mobility in soil: Not available.

Other adverse effects: Disruption of oxygen, water and light to flora and fauna.

Section 13 Disposal Considerations

Treatment: Dispose of product in accordance with local, regional, municipal, provincial (state), or federal regulations. Never dispose of product in public sewers. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Recycling Options: Triple rinse the empty container. Re-use with same/similar/compatible product, or recycle through accredited recycling firm. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 Transport Information

In case of emergency:: CANUTEC: 613-996-6666
Poison Control Centre: Consult local telephone directory for emergency numbers(s)

Regulatory information	UN number	UN proper shipping name	Classes	PG*	Label	Special precautions
TDG Classification	Not regulated	-	-	-	-	-
DOT Classification	Not regulated	-	-	-	-	-

PG*: Packing group.

Special shipping instructions: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product knows what to do in the event of an accident or spillage.

Section 15 Regulatory Information

WHMIS Classification:	This product is not controlled as per WHMIS specifications (Canada).
CPR Compliance:	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the SDS contains all the information required by the <i>Controlled Products Regulations</i> .
CEPA Status (DSL):	This product or all of its components are currently listed on the Domestic substances List (DSL), as described under the Canadian Environmental Protection Act (CEPA).
TSCA Inventory Status:	This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.
Conformity to other Regions	Available upon request.

Section 16 Other Information

History

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Prepared by:	Orley Pinchuk
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