



SAFETY DATA SHEET

Version: 1.3

Revision Date: 8/24/2020

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. Please determine your responsibilities under your local regulations.

1. Identification of the substance or mixture and of the supplier

Identification

Product Name: Lithium Complex Block Grease
Article Number: 10616

Details of the supplier of the safety data sheet

Company Name: Opti-Lube Inc
Address: 1646 W Business Park Drive, Suite B
Orem, UT 84058
USA
Telephone: 801-491-3717

Emergency telephone number:

During normal business hours: (801)-491-3717

2. Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Label Elements:

GHS label elements: Void
Hazard Pictograms: Void
Signal Word: Void
Hazard statements: Void
Classification system: Void

NFPA ratings (scale 0 - 4)

Health	1
Flammability	1
Physical Hazards	0

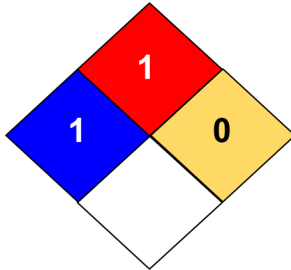


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HMIS-ratings (scale 0 - 4)

**Flammability****Health****Reactivity**

Special hazard

Other hazards:

Results of PBT and vPvB assessment

PBT: No applicable.

vPvB: No applicable.

3. Composition/Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with non-hazardous additions.

Dangerous components: Void

4. First-aid Measures

Description of first aid measures:

General Information: No special measures required.**Ingestion:** If symptoms persist consult a doctor.**Inhalation:** Supply fresh air; consult a doctor in case of complaints.**Eye Contact:** Rinse opened eye for several minutes under running water.**Skin Contact:** Generally the product does not irritate the skin.**Note To Physician:** **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. Fire-fighting measures

Extinguishing media:

Suitable Extinguishing Media: Use fire fighting measures that suit the environment.**Specific hazard arising from the substance or mixture:** Vapors may cause a flash fire or ignite explosively. Prevent buildup.



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Advice for firefighters, Special protective equipment and precautions for firefighters: No special measures required.

6. Accidental release measures

Protective Precautions, Protective Equipment and Emergency Procedures:

Not required.

Methods and material for containment and cleanup:

Pick up mechanically.

Environment Precautions:

Do not allow to enter sewers/surface or ground water.

References to other sections:

See Section 7 for safe handling.
See Section 8 for information on personal protection equipment
See Section 13 for disposal information.

7. Handling and Storage

Handling:

Precautions for Safe Handling:

No special precautions are necessary if used correctly.

Information about protection against explosion and fires:

No special measures required.

Storing:

Conditions for safe storage, including any incompatibilities:

Keep cool. Store in a well-ventilated place.

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

Specific end use(s):

No further relevant information available.

8. Exposure Controls / Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control Parameters:

Components with limit values that require monitoring at the workplace:

64742-01-4 Residual oils (petroleum), solvent-refined (50-100%)

OSHA PEL

Long-term value: 5 mg/m³



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64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic (10-<25%)

ACGIH TLV	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
OSHA PEL	Long-term value: 5 mg/m ³

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls:**Personal protective equipment:**

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: The glove material has to be impermeable and resistant to the product/substance/preparation/chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of a suitable glove does not only depend on the material, but also on further marks of quality and carries from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Not required.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Form:	Solid
Appearance (Color):	Amber
Odor:	Petroleum-like
Odor Threshold:	Not determined
pH - value:	Not applicable
Change in condition:	
Melting Point/range:	Not determined
Boiling Point/range:	338 °C (640 °F)
Flash Point:	266 °C (511 °F)
Flammability (solid, gas):	Not determined
Ignition temperature:	> 315 °C (> 599 °F)
Decomposition Temperature:	Not determined
Auto-ignition:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosive Limit- upper (%):	No data available



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Explosive Limit- lower (%) :	No data available
Vapor Pressure (Air=1) :	Not applicable
Density at 20 °C (68 °F) :	0.92265 g/cm ³ (7.7 lbs/gal)
Relative Density :	Not determined
Vapor Density :	Not applicable
Evaporation Rate :	Not applicable
Solubility in / miscibility with water :	Insoluble in water
Partition Coefficient n-octanol / water :	Not determined
Viscosity :	
Dynamic :	Not applicable
Kinematic :	Not applicable
Solvent Content, Organic Solvent :	0.00%
Solids content :	23.50%
Other information :	No further relevant information available.

10. Stability and reactivity

Reactivity :	Not determind
Chemical Stability :	Not determind
Thermal decomposition / condations to be avoided :	No decomposition if used according to specifications.
Possibility of Hazardous Reactions :	No dangerous reactions known.
Conditions To Avoid :	No further relevant information available.
Incompatible Materials :	No further relevant information available.
Hazardous Decomposition Products :	No dangerous decomposition products known.

11. Toxicological Information

Information on likely routes of exposure:

Acute toxicity :	LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Esmates) Oral LD50 3577 mg/kg (rat)
Primary irritant effect :	
Skin :	No irritant effect.
Eye :	No irritating effect.



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Sensitization:	No sensitizing effects known.
Additional toxicological information:	The product is not subject to classification according to internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
Carcinogenic categories:	IARC (International Agency for Research on Cancer) None of the ingredients is listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed.

12. Ecological Information

Toxicity:	
Acute toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems	
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	
General Notes:	Water hazard class 1 (self-assessment): Slightly hazardous for water. Do not allow undiluted product of large quantities reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects:	No further relevant information available.

13. Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. Transport Information

UN Number:

DOT, ADN, IMDG, IATA Not regulated.



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UN Proper Shipping Name:

DOT, ADN, IMDG, IATA Not regulated.

Transport Hazard Class(es):DOT, ADN, IMDG, IATA
Classes Not regulated.**Packing Group:**

DOT, ADN, IMDG, IATA Not regulated.

Environmental Hazards**Marine Pollutant:** No**Special precautions for user:** Not applicable

Transport in bulk according to annex II of MARPOL73-78 and the IBC Code: Not applicable.

UN "Model Regulation":

15. Regulatory Information

Safety, health and environmental regulation/legislation specific for the substance or mixture.

SARA**Section 335 (extremely hazardous substances):** None of the ingredients are listed.**Section 313 (Specific toxic chemical listings):** None of the ingredients are listed.**TSCA (toxic substance control act):** All ingredients are listed.**Proposition 65****Chemicals known to cause cancer:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity to females:** None of the ingredients are listed.**Chemicals known to cause reproductive toxicity to males:** None of the ingredients are listed.**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.**Carcinogenic Categories****EPA (Environmental Protection Agency)** None of the ingredients are listed.**TLV (Threshold limit value established by ACGIH)** None of the ingredients are listed.**NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients are listed.**GHS Label elements** Void**Hazard Pictograms** Void**Signal Word** Void**Hazard statements:** Void**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16. Other information, including date of preparation or last revision

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



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Department issuing SDS: Technical Department

Contact: sales@op-lube.com or 801-491-3717

Date of preparation/last revision: 8/24/20

Abbreviations and acronyms:

ADR:	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods.
DOT:	US Department of Transportation.
IATA:	International Air Transport Association.
ACGIH:	American Conference of Governmental Industrial Hygienists.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
NFPA:	National Fire Protection Association (USA).
HMIS:	Hazardous Materials Identification system (USA).
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
Skin Irrit. 2:	Skin corrosion/irritation, hazard category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, hazard category 2A
Skin Sens. 1:	Sensitisation - skin, hazard category 1
STOT SE 3:	Specific target organ toxicity - single exposure, hazard category 3

*Data compared to the previous version altered.