

# SAFETY DATA SHEET (SDS)

*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 Block Grease  
**Article Number:** 10497

### Details of the supplier of the safety data sheet

#### Supplier

**Company name:** Opti-Lube  
**Address:** 1195 S 1680 W  
Orem, UT 84058  
USA  
**Telephone:** 801-491-3717

### Emergency telephone number:

During normal open hours: +1 (801) 491-3717

## 2. Hazard(s) identification

### Classification of the substance or mixture

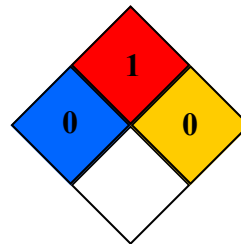
The product is not classified according to the Globally Harmonized System (GHS).

### Label Elements:

**GHS label elements:** Void  
**Hazard Pictograms:** Void  
**Signal word:** Void  
**Hazard statements:** Void  
**Classification system:** Void  
**NFPA ratings (scale 0 - 4)**

<b>Health</b>	*	<b>1</b>
<b>Flammability</b>		<b>1</b>
<b>Reactivity</b>		<b>0</b>

### HMIS-ratings (scale 0 - 4)



1	Flammability
0	Health
0	Reactivity
	Special hazard

### Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Void  
**vPvB:** Void

### 3. Composition/Information on Ingredients

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below with nonhazardous 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.

**Information for doctor:** **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

**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 of  
No further relevant information available.

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

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**  
Not required.

**Environmental precautions:** Do not allow to enter sewers/surface or ground water.

**Methods and material for containment and cleanup:**  
Pick up mechanically.

**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 explosions and fires:** No special measures required.

**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

### Control Parameters:

#### Components with limit values that require monitoring at the workplace:

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic (50 - 100%)	
ACGIH TLV	Short-term value: 10 mg/m <sup>3</sup>
OSHA PEL	Long-term value: 5 mg/m <sup>3</sup>
	Long-term value: 5 mg/m <sup>3</sup>
64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic (10 - <25%)	
ACGIH TLV	Short-term value: 10 mg/m <sup>3</sup>
OSHA PEL	Long-term value: 5 mg/m <sup>3</sup>
	Long-term value: 5 mg/m <sup>3</sup>
4485-12-5 Lithium Octadecanoate (10—<25%)	
ACGIH TLV	Long-term value: 10 mg/m <sup>3</sup>

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Form:</b>	Solid
<b>Color:</b>	Light amber
<b>Oder:</b>	Petroleum-like
<b>Oder threshold:</b>	Not determined
<b>pH - value:</b>	Not applicable
<b>Change in condition:</b>	
<b>Melting point/melting range</b>	Undetermined.
<b>Boiling point/boiling range</b>	370 °C (698 °F)
<b>Flash point:</b>	164 °C (327 °F)
<b>Flammability (solid, gas):</b>	Not determined.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure (air=1):</b>	Not applicable
<b>Density at 20 °C (68 °F):</b>	0.93674 g/cm <sup>3</sup> (7.817 lbs/gal)
<b>Realative Density:</b>	Not determined.
<b>Vapor Density:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable.
<b>Solubility in / miscibility with water:</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>Ignition temperature:</b>	> 315 °C (> 599 °F)
<b>Auto-ignighting:</b>	Product is not self-ignighting.
<b>Decomposition temperature:</b>	Not Determined
<b>Solvent Content, Organic Solvent:</b>	0.0%
<b>Solids content:</b>	20.1%
<b>Other information:</b>	No further relevant information available.

## 10. Stability and reactivity

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

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Skin contact:</b>	No irritating effect.
<b>Eye contact:</b>	No irritating effect.
<b>Sensitization:</b>	No sensitizing effects known.

### Information on toxicologica effects:

**Acute toxicity:** **LD/LC50 values that are relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral	LD50	9970 mg/kg (rat)
Dermal	LD50	769231 mg/kg (rabbit)
Inhalative	LC50/4h	145231 mg/l (rat)

### 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)

Asphaltic Resin 2B

#### 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

<b>Acute toxicity:</b>	No further relevant information available.
<b>Persistence and degradability:</b>	No further relevant information available.

### Behavior in environmental systems

<b>Bioaccumulative potential:</b>	No further relevant information available.
<b>Mobility in soil:</b>	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

<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>Other adverse effects</b>	No further relevant information available.

### 13. Disposal considerations

**Waste treatment methods**  
**Recommendation:** Smaller quantities can be disposed of with household waste.

**Uncleaned packagings**  
**Recommendation:** Disposal must be made according to official regulations.

### 14. Transport Information

**UN - Number**  
 DOT, ADN, IMDG, IATA Not regulated.

**UN proper shipping name**  
 DOT, ADN, IMDG, IATA Not regulated.

**Transport hazard class(es)**  
 DOT, ADN, IMDG, IATA  
 Classes Not regulated.

**Packing group**  
 DOT, 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)** Asphaltic Resin

**NIOSH-Ca (National Institute for Occupational Safety and Health):** Asphaltic Resin.

**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.*

**Department issuing SDS:** Technical Department  
**Contact:** sales@opti-lube.com or 801-491-3717  
**Date of preparation / last revision:** 02/08/2016

**Abbreviations and acronyms:**

<b>ADR:</b>	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
<b>IMDG:</b>	International Maritime Code for Dangerous Goods.
<b>DOT:</b>	US Department of Transportation.
<b>IATA:</b>	International Air Transport Association.
<b>ACGIH:</b>	American Conference of Governmental Industrial Hygienists.
<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances.
<b>ELINCS:</b>	European List of Notified Chemical Substances.
<b>CAS:</b>	Chemical Abstracts Service (division of the American Chemical Society).
<b>NFPA:</b>	National Fire Protection Association (USA).
<b>HMIS:</b>	Hazardous Materials Identification system (USA).
<b>LC50:</b>	Lethal concentration, 50 percent.
<b>LD50:</b>	Lethal dose, 50 percent.

**\*Data compared to the previous version altered.**