

# SAFETY DATA SHEET

## Lloyds Laboratories Inc.

### MS Moly Semi Synthetic Open Chain Lube – Part #67614

#### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

**Identification of Preparation:** MS Moly Open Chain Lube

**Date of Safety Data Sheet:** February 14, 2018

**Use of Preparation:** Lubricant.

**Company Identification:** Lloyds Laboratories Inc.  
613 Neal Drive,  
Peterborough,  
Ontario  
K9J 6X7

**Company Telephone Number:** 800 361-6766

**24 Hour Telephone Number:** CANUTEC 613-996-6666 or \*666 for cell phone.

#### 2. HAZARD IDENTIFICATION

##### Emergency Overview:

##### OSHA / WHMIS 2015 Hazards

Aspiration Hazard.

Flammable Aerosol.

Eye and skin irritant.

##### Classification of substance or mixture

##### GHS-US/Canadian classification:

##### GHS Hazards

Flammable Aerosol Category 1.

Skin Irritant Category 2.

Eye Irritant 2 A.

Aspiration Hazard Category 1.

##### Label Elements

##### GHS Labeling

##### Hazard Pictograms (GHS):



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**Signal Word (GHS):** Danger.

**Hazard Statements (GHS):**

H222 Extremely flammable aerosol.

H 280 Compressed gas.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness

**Precautionary Statements (GHS):**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces and direct sunlight.

P211 Do not spray on an open flame or other ignition source.

P252 Do not pierce or burn, even after use.

P261+P271 Avoid breathing mist/vapours/spray use in a well ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

**Response (GHS):**

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+ P340 If inhaled: remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash before reuse.

P304+P340+P312 IF INHALLED: Remove person to fresh air and keep comfortable for breathing. Call a poison centre/doctor if you feel unwell.

P391 Collect Spillage.

P410+P403 Protect from sunlight. Do not expose to temperatures above 50 C/ 122 F.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical.

Ingredient	CAS#	% by Wt	Classification
Heptane	142-82-5	60-100	Flammable Liquid Category 2 – H225 Skin Irritant Category 2 – H315 Aspiration Toxicity 1- H304 STOT SE 3- H336
Propane	74-98-6	7-13	Flammable gas 1 Liquefied gas
Butane	106-97-8	7-13	Flammable gas 1 Liquefied gas

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#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms persist consult physician.
<b>Eye Contact:</b>	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin Contact:</b>	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
<b>Ingestion:</b>	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personnel. Never give anything to an unconscious person. Get medical aid.
<b>Notes to Physician:</b>	Treatment based on judgment of attending physician.

#### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water spray or fog, foam, dry chemical, CO2.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Special exposure hazards:</b>	Fire or excessive heat may produce hazardous decomposition products.
<b>Special safety equipment:</b>	Self-contained positive pressure breathing apparatus and protective clothing.
<b>Fire and explosion:</b>	Flammable aerosol. Under fire conditions closed containers may rupture or explode. Bursting aerosol containers may be propelled from fire at high speed. Vapours may travel long distances along the ground before igniting/flashing back vapour to source.
<b>Further information:</b>	Keep containers and surroundings cool with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe mist.

##### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

##### **Environmental Precautions**

Prevent entry to sewers and public waters.

##### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any powder spills with dikes to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections:** See Heading 8. Exposure controls and personal protection.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of mist. Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Information about fire - and explosion protection:

Keep respiratory protective device available.

No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage:

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

**Specific end use(s):** No further relevant information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Respiratory protection:

Use local exhaust or dilution ventilation.

### Hand protection:

Chemical resistant gloves.

### Eye protection:

Safety goggles.

### Skin protection:

Use body-covering clothing.

### Working hygiene:

Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

### Exposure Guidelines:

Heptane 8 Hr TWA PEL (OSHA) 500 ppm TLV (ACGIH) 15000mg/m<sup>3</sup>

n-Butane 8 Hr TWA PEL not available TLV (ACGIH) 250 ppm

Propane 8 Hr TWA PEL 1000 ppm TLV (ACGIH) Aspyx.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Molecular Weight:

No data available.

### Evaporation Rate (BuAc=1):

No data available.

### Appearance:

Aerosol opaque black liquid.

### Vapour Density (Air=1):

No data available.

### Odour:

Solvent scent.

### Specific Gravity:

0.810 g/cm<sup>3</sup> @ 15.5C.

### Odour Threshold:

No data available.

### Solubility in Water:

Not Soluble.

### pH:

No data available.

### Log Pow (calculated):

No data available.

### Melting Point:

No data available.

### Autoignition Temperature:

No data available.

### Boiling Point/Range:

No data available.

### Decomposition Temperature:

No data available.

### Flash Point:

-104 C propane.

### Viscosity:

< 20 c St.

### Flammable Limits in Air:

### Percent Volatile by Volume:

No data available.

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Lower Explosion limit: No data available.

Upper Explosion limit: No data available.

### 10. STABILITY AND REACTIVITY

**Reactivity:** Stable at normal ambient temperature and pressure.  
**Chemical stability:** No decomposition if stored and applied as directed.  
**Conditions to avoid:** Keep away from heat and sources of ignition.  
**Hazardous decomposition products:** Hazardous gases and vapours produced in fire are oxides of carbon.  
**Materials to avoid:** Oxidizing agents.  
**Hazardous polymerization:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Oral: LD 50 > 5g/kg-bw.

Dermal: LD 50 > 2g/kg-bw.

Inhalation: LC 50=65-103 mg/L (Vapour) 4 hr. Rat.

#### Carcinogenicity:

#### Chemical Name CAS Number IARC NTP OSHA

No ingredient listed.

#### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No data available for mixture.

**Reproductive:** No evidence of negative reproductive effects.

#### Target Organ Effects:

**Acute:** No information available.

**Chronic:** None known.

### 12. ECOLOGICAL INFORMATION

**Toxicity:** Not classified.

**Persistence and Degradability:** Not available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** Not available.

**Other Adverse Effects:**

**Other Information:** Avoid release to the environment.

**Aquatic Toxicity:** No data available.

Date: September 8,2017

SDS: MS Moly Open Chain Lube Aerosol

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**Toxicity to algae, fish invertebrates:** No data available.

**Biodegradation:** No data available.

#### 13. DISPOSAL

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

**Empty Containers:** Do not pierce, drill or burn even after use. Container under pressure.

#### 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT):** Limited quantity. UN 1950 Aerosols, Class 2.1.

**Canadian TDG (Road & Rail):** Limited quantity. UN 1950 Aerosols, Class 2.1.

#### 15. REGULATION

**Toxic Substances Control Act (TSCA):** Listed.

**US EPA CERCLA Hazardous Substances (40 CFR 302):** None.

**California PROP 65:** None.

**Canadian Domestic Substance List (DSL):** Listed.

Personal Protection: B.

**SDS US** (GHS HazCom 2012).

**SDS CDN** (GHS WHIMS 2015).

#### 16. OTHER INFORMATION

**Prepared By:** Technical Department

**Issuing Date:** February 14, 2018

**Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**