

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

MS₂Moly Open Chain Lube (Aerosol) Part # 67614

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MS₂ Moly Open Chain Lube **PRODUCT USE:** Lubricant.
MANUFACTURER: Lloyds Laboratories Inc. **SUPPLIER:** Lloyds Laboratories Inc.
ADDRESS: 613 Neal Drive, Peterborough, Ontario, K9J 6X7 **ADDRESS:** 613 Neal Drive, Peterborough, Ontario, K9J 6X7
EMERGENCY #: 1 800 361-6766 **EMERGENCY #:** 1 800 361-6766

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-TWA	ACGIH-TWA	LD ₅₀
Propane	74-98-6	7-13	1800 mg/m ³	4508 mg/m ³	Not available
Isobutane	75-28-5	7-13	Not available	Not available	Vapour LC 50 Acute: 0.0057 ppm 0.25 hours Rat.
Heptane	142-82-5	45-75	400 mg/m ³	400 mg/m ³	15,000 mg/kg

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.
Potential Health Effects:
Eye Contact: May cause irritation to eyes. Symptoms including stinging, tearing and redness.
Skin Contact: May cause irritation upon repeated/prolonged contact. May dry the skin causing redness, burning and drying. Possible skin permeator.
Inhalation: May cause slight nose, throat and respiratory tract irritation. Breathing small amounts of the product is not likely to cause harmful effects below TWA limit. Breathing large amounts, ie over the TWA may cause harmful effects.
Ingestion: May cause irritation to mouth, esophagus and stomach. May cause gastric tract upset and/or damage. Swallowing large amounts may be harmful. This material can get into lungs during swallowing or vomiting. This result is lung inflammation and other lung injury.
Chronic Effects:
Carcinogenicity: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHMIS/OSHA criteria.
Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471).
Skin: Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

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SECTION IV: FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.

Skin Contact: Flush with water. Remove contaminated clothing and launder before reuse.

Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water, and then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

SECTION V: FIRE FIGHTING MEASURES

Flammability: NFPA 30B Level 1 Aerosol.

Flash Point deg (C,TCC):

Means of Extinction: Use water spray to keep fire exposed containers cool. Dry chemicals, carbon dioxide. Fight fire from protected location or maximum possible distance.

Special Fire Hazards: Fire fighters should wear self contained breathing apparatus as for surrounding fire. Aerosol product - containers may rocket or explode.

Autoignition temperature: Not applicable.

Flame projection: 28.0 cm.

Sensitivity to static discharge: Not applicable.

Unusual Fire and Explosion Hazards: Aerosol product - containers may rocket or explode.

Hazardous decomposition products: Oxides of carbon, oxides of nitrogen.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN.
Store in a dry, cool and well ventilated area. Protect from freezing. Do not puncture or incinerate. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120°F or 50°C. Do not pierce or burn, even after use.

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SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Not normally required. Use Viton or Nitrile gloves to avoid prolonged or skin contact repeated.

Eye Protection: If eye contact is possible chemical splash goggles are recommended.

Respiratory Protection: Not normally required if good ventilation is maintained to maintain below TWA.

Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.

Engineering Controls: General ventilation normally required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol	Odour and Appearance: Solvent, clear in colour	Odour Threshold	Not applicable
Vapour Pressure (mm Hg):	4394.5	Vapour Density (Air=1)	Not applicable	Boiling Point (°C) Not applicable
% Volatile (Wt %):	100 %	Solubility in water(20°C)	None	Freezing Point (°C) -25°C
pH	Not applicable	Specific Gravity	.684	Evaporation Rate (nBuAc=1) >BuAc
Coeff. Water/Oil Dist.	Not available			

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable under normal conditions. Excessive heat or contamination could cause decomposition.

Incompatible Materials: Reducing agents, strong acids, strong caustics, iron and other metals.

Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated.

SECTION XI: TOXICOLOGICAL INFORMATION

LD 50 values for individual components see section II.
Skin Sensitization (OECD Sec. 406) Non sensitizing.

SECTION XII: ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

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SECTION XIV: TRANSPORTATION

T.D.G. Classification: Please refer to Bill of lading for up to date shipping information.
D.O.T. Classification: Please refer to Bill of lading for up to date shipping information.

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety

Regulations:

WHMIS Class:

Class A Compressed Gas/Class B-5 Flammable aerosol.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

Environmental Regulatory Lists:

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302:

Butane, Propane, Heptane.

CLEAN WATER ACT – Section 311

Heptane.

(Reportable Qty) 40 CFR 116:

CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C):

Flammable substances Propane, Isobutane, Heptane.

Toxic Substances Control Act (TSCA):

All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL.

SECTION XVI: OTHER INFORMATION

Date: June 7, 2013	Prepared By: Technical Services Group	Telephone: 1 800 361-6766
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Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).