



---

---

## Section 1: Product & Company Identification

---

---

**Product Name:** Dry Moly Lube

**Product Number (s):** 73084

**Product Use:** Dry film lubricant

### **Manufacturer / Supplier Contact Information:**

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

---

---

## Section 2: Hazards Identification

---

---

### Emergency Overview

**DANGER:** Extremely Flammable. Harmful or Fatal if Swallowed. Eye and Skin Irritant.  
Contents Under Pressure.

Appearance & Odor: Dark viscous liquid, solvent odor

### Potential Health Effects:

**ACUTE EFFECTS:**

**EYE:** May cause eye irritation, including redness, itching or burning sensation.

**SKIN:** Prolonged or repeated exposure may cause irritation. Symptoms of overexposure include redness, itching and burning of skin.

**INHALATION:** May cause irritation of the upper respiratory system or nervous system depression (headache, dizziness, nausea and loss of coordination). Extreme overexposure may result in unconsciousness and possibly death.

**INGESTION:** Ingestion of aerosol product is not expected during normal use.

**CHRONIC EFFECTS:** Prolonged overexposure may cause adverse effects to the liver and urinary systems.

**TARGET ORGANS:** liver and urinary systems

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

---



---

### Section 3: Composition/Information on Ingredients

---



---

COMPONENT	CAS NUMBER	% by Wt.
Propane	74-98-6	5 - 15
Butane	106-97-8	15 - 25
Heptane	142-82-5	3 - 8
Mineral Spirits	64742-88-7	1 - 5
2-Propanol	67-63-0	20 - 30
Acetone	67-64-1	30 - 40
Molybdenum Disulfide	1317-33-5	1 - 5

---



---

### Section 4: First Aid Measures

---



---

- Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion: Do NOT induce vomiting. Get medical attention immediately.
- Note to Physicians:* Treat symptomatically.

---



---

### Section 5: Fire-Fighting Measures

---



---

**Flammable Properties:** This product is extremely flammable in accordance with aerosol flammability definitions.

Flash Point: < 0°F / -17.8°C  
 Autoignition Temperature: ND

Upper Explosive Limit: ND  
 Lower Explosive Limit: ND

**Fire and Explosion Data:**

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam

Products of Combustion: Carbon dioxide and carbon monoxide

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

---



---

### Section 6: Accidental Release Measures

---



---

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into

sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

## Section 7: Handling and Storage

Handling Procedures: Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilate. Do not smoke. Extinguish all flames, pilot lights, and heaters. Turn off stoves, electronic tools and other appliances, and any other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 48.9°C to prevent cans from rupturing. Store out of reach of children

Aerosol Storage Level: III

## Section 8: Exposure Controls/Personal Protection

### Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Propane	1000	NE	1000	NE	NE		ppm
Butane	800	NE	1000	NE	NE		ppm
Heptane	500	NE	400	500	NE		ppm
Mineral Spirits	NE	NE	NE	NE	NE		
2-Propanol	400	NE	200	400	NE		ppm
Acetone	1000	NE	500	750	NE		ppm
Molybdenum Disulfide	NE	NE	10	NE	NE		mg/m <sup>3</sup>
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

### Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

**Section 9: Physical and Chemical Properties**

Physical State: liquid  
 Color: charcoal color  
 Odor: solvent odor  
 Odor Threshold: ND  
 Specific Gravity: 0.71  
 Initial Boiling Point: ND  
 Freezing Point: ND  
 Vapor Pressure: ND  
 Vapor Density: > 1 (air = 1)  
 Evaporation Rate: fast  
 Solubility: NA  
 Coefficient of water/oil distribution: NA  
 pH: ND  
 Volatile Organic Compounds: wt %: 61.8 g/L: 438.78 lbs./gal: 3.66

**Section 10: Stability and Reactivity**

Stability: Stable  
 Conditions to Avoid: Sources of ignition; temperature extremes  
 Incompatible Materials: None known  
 Hazardous Decomposition Products: Carbon dioxide and carbon monoxide  
 Possibility of Hazardous Reactions: No

**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**Acute Toxicity:**

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Propane	No data	No data	No data
Butane	No data	No data	658,000 mg/m <sup>3</sup> /4H
Heptane	No data	No data	103 g/m <sup>3</sup> /4H
Mineral Spirits	> 2000 mg/kg	> 2000 mg/kg	No data
2-Propanol	5000 mg/kg	12,800 mg/kg	16,000 ppm/8H
Acetone	5800 mg/kg	No data	50,100 mg/m <sup>3</sup> /8H
Molybdenum Disulfide	No data	No data	> 2820 mg/m <sup>3</sup> /4H

**Chronic Toxicity:**

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Propane	No	No	No	No	No
Butane	No	No	No	No	No
Heptane	No	No	No	E (mild) / S (moderate) / R (mild)	Unknown

Mineral Spirits	No	No	No	E (mild) / S (moderate) / R (mild)	Unknown
2-Propanol	No	No	No	E (moderate) / S (mild)	No
Acetone	No	No	No	E (moderate) / S (moderate) / R (mild)	Yes
Molybdenum Disulfide	No	No	No	E (mild) / S (mild) / R (mild)	Unknown

E – Eye	S – Skin	R - Respiratory
---------	----------	-----------------

Reproductive Toxicity: No information available  
Teratogenicity: No information available  
Mutagenicity: No information available  
Synergistic Effects: No information available

## Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Acetone – 48H LC50 Daphnia: 10 mg/l  
 Persistence / Degradability: No information available  
 Bioaccumulation / Accumulation: No information available  
 Mobility in Environment: No information available

## Section 13: Disposal Considerations

**Waste Classification:** The dispensed liquid product is a hazardous waste for the characteristic of ignitability with a waste code of D001.  
 Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

## Section 14: Transport Information

US DOT (ground): UN1950, Aerosols, flammable, 2.1, Limited Quantity  
 ICAO/IATA (air): UN1950, Aerosols, flammable, 2.1, Limited Quantity  
 IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity  
 Special Provisions: None

## Section 15: Regulatory Information

**U.S. Federal Regulations:**

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5,000 lbs)

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

**Canadian Regulations:**

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

WHMIS Hazard Class: A, B5, D2B

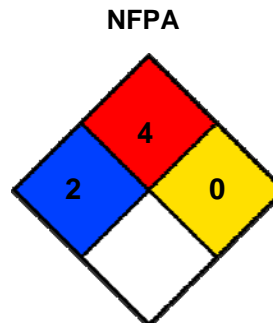
**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

**Section 16: Other Information**

HMIS® (II)	
Health:	2
Flammability:	4
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 73084  
Revision Date: 03/09/2015

Changes since last revision: Revision Date

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists	NA: Not Applicable
CAS: Chemical Abstract Service	ND: Not Determined
CFR: Code of Federal Regulations	NIOSH: National Institute of Occupational Safety & Health
DOT: Department of Transportation	NFPA: National Fire Protection Association
DSL: Domestic Substance List	NTP: National Toxicology Program
g/L: grams per Liter	OSHA: Occupational Safety and Health Administration
HMIS: Hazardous Materials Identification System	PMCC: Pensky-Martens Closed Cup
IARC: International Agency for Research on Cancer	PPE: Personal Protection Equipment
IATA: International Air Transport Association	ppm: Parts per Million
ICAO: International Civil Aviation Organization	RoHS: Restriction of Hazardous Substances
IMDG: International Maritime Dangerous Goods	STEL: Short Term Exposure Limit
IMO: International Maritime Organization	TCC: Tag Closed Cup
lbs./gal: pounds per gallon	TWA: Time Weighted Average
LC: Lethal Concentration	WHMIS: Workplace Hazardous Materials Information System
LD: Lethal Dose	