



Chemical Name: Moly Coat

Manufacturer: Lawson

Container Size: 12.5 oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.

Material Safety Data Sheet

Revision Date 10-May-2010

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 92964
Product name Moly Coat
Recommended Use Lubricant

Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Vapors may be irritating to eyes, nose, throat, and lungs. Vapors may cause flash fire or explosion.

Aggravated Medical Conditions
None Known

Principal Routes of Exposure
Eyes. Skin contact. Inhalation. Ingestion.

Potential health effects

Eyes May cause the following effects: Irritation. Pain. Tearing. Reddening. Swelling. Stinging sensation. Feeling like that of fine dust in the eye.

Skin Repeated or prolonged exposure may cause: Skin Irritation. Defatting. Dermatitis. Chronic exposure causes drying effect on the skin.

Inhalation Harmful by inhalation. Avoid breathing vapors or mists. Repeated or prolonged exposure may cause the following effects. Headaches. Dizziness. Nausea. Decreased blood pressure. Changes in heart rate. Cyanosis. Central nervous system damage. Lung damage. Kidney damage. Liver damage.

Ingestion No hazard under normal industrial and institutional use. Harmful or fatal if swallowed. Can burn mouth, throat, and stomach.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|----------------------------|------------|----------|
| Propane/Isobutane/N-Butane | 68476-86-8 | 40-50 |
| 2-Propanone | 67-64-1 | 20-30 |
| Dimethylbenzene | 1330-20-7 | 10-20 |
| Isopropyl Alcohol | 67-63-0 | 1-10 |

| | | |
|--------------------|-----------|------|
| Ethylbenzene | 100-41-4 | 1-10 |
| Molybdenum sulfide | 1317-33-5 | 1-10 |

4. FIRST AID MEASURES

Eye contact Flush eyes immediately with large amounts of water. Seek medical attention if irritation persists.

Skin contact Wash off immediately with soap and plenty of water. Seek medical attention if irritation persists.

Ingestion Seek medical attention immediately. Do not induce vomiting. Give victim a glass of water or milk. Contact physician or poison control center immediately. Do not give anything by mouth to an unconscious person.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.

5. FIRE FIGHTING MEASURES

Flash point °C -96.11
Flash point °F -141
Method Pensky-Martens C.C.

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper 12.8
Lower 0.8

Specific Information for Aerosol Products

Flame extension Unknown
Flashback Unknown

Suitable extinguishing media
Alcohol foam. Carbon dioxide (CO₂). Dry chemical. Foam. Water fog.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire and Explosion Hazards
Containers may vent or burst under extreme or prolonged fire conditions. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches. Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death.

Sensitivity to shock
No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Methods for cleaning up**

Soak up with noncombustible inert absorbent material. Place in suitable container for disposal as hazardous waste.

7. HANDLING AND STORAGE**Handling**

Thoroughly wash hands and exposed skin after handling. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Control airborne concentration below exposure level. Use only according to label directions. Handle empty containers as if they were full. Avoid breathing vapors. Do not get on skin or in eyes.

Storage

Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Do not freeze.

NFPA Storage Code

Store as Level 3 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|----------------------------|------------------------------------|--------------------|-----------------|------------------|
| Propane/Isobutane/N-Butane | - | - | - | - |
| 2-Propanone | 1000 ppm 2400 mg/m ³ | - | 500 ppm | 750 ppm |
| Dimethylbenzene | 100 ppm 435 mg/m ³ | - | 100 ppm | 150 ppm |
| Isopropyl Alcohol | 400 ppm 980 mg/m ³ | - | 200 ppm | 400 ppm |
| Ethylbenzene | 100 ppm 435 mg/m ³ | - | 100 ppm | 125 ppm |
| Molybdenum sulfide | - | - | - | - |

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Other precautions

Avoid contact with skin, eyes and clothing.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Protection provided by air purifying respirators is limited. Use a positive pressure supplied air respirator. If there is any potential for an uncontrolled release, where exposure levels are not known, or other circumstances where an air purifying respirator (P100) may not provide adequate protection. Seek professional advice prior to respirator selection and use.

Hand Protection

Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

Eye protection

Wear safety glasses with side shields.

Skin and body protection

Wear appropriate clothing to minimize skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-----------------------------------|
| Form | Aerosol |
| Color | Black - Green |
| Odor | Solvent |
| Odor Threshold | No information available |
| pH | Not Applicable |
| Specific Gravity | 0.6752 |
| Vapor pressure | No data available |
| Vapor density | heavier than air |
| Evaporation Rate | Is faster than Butyl Acetate |
| Water solubility | Negligible |
| VOC Content | 68.6%; 369 gm/liter; 3.08 lbs/gal |
| Partition Coefficient (n-octanol/water) | No data available |
| Boiling point/range °C | -30.6 - 175 |
| Boiling point/range °F | -23 - 284 |
| Melting point/range °C | No data available |
| Melting point/range °F | No data available |
| Flash point °C | -96.11 |
| Flash point °F | -141 |

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions.

Conditions to avoid

Contact with ignition sources, hot-glowing surfaces, electrical arcs, sparks, and open flame. Do not use near welding arcs.

Incompatibility

Strong acids. Alkalis. Oxidizers.

Product code **92964**Product name **Moly Coat****Hazardous Decomposition Products**

Carbon oxides.

Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

| Chemical Name | LD50 (oral,rat) | LD50 (dermal,rat/rabbit) | LC50 (inhalation,rat) |
|--|-----------------|----------------------------|------------------------|
| Propane/Isobutane/N-Butane 68476-86-8 | - | - | - |
| 2-Propanone 67-64-1 | 5800 mg/kg | - | - |
| Dimethylbenzene 1330-20-7 | 4300 mg/kg | 1700 mg/kg | 47635 mg/L 5000 ppm |
| Isopropyl Alcohol 67-63-0 | 4396 mg/kg | 12800 mg/kg 12870 mg/kg | 72.6 mg/L |
| Ethylbenzene 100-41-4 | 3500 mg/kg | 15354 mg/kg | 17.2 mg/L |
| Molybdenum sulfide 1317-33-5 | - | - | 2820 mg/m ³ |

Synergistic Products None known**Potential health effects**

| | |
|------------------------------|---|
| Sensitization | None known |
| Chronic toxicity | Possible risks of irreversible effects . Prolonged exposure may cause chronic effects . |
| Mutagenic effects | None known |
| Teratogenic effects | None known |
| Reproductive toxicity | None known |
| Target Organ Effects | Long term exposure to vapor may cause lung damage. Long term exposure to vapor may cause kidney damage. Central nervous system. |
| Carcinogenic effects | See table below |

| Chemical Name | ACGIH OEL - Carcinogens | IARC | NTP - Known Carcinogens | NTP - Suspected Human Carcinogens | OSHA RTK Carcinogens |
|----------------------------|-------------------------|------------|-------------------------|-----------------------------------|----------------------|
| Propane/Isobutane/N-Butane | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| 2-Propanone | Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Dimethylbenzene | Listed | Not Listed | Not Listed | Not Listed | Not Listed |

| | | | | | |
|--------------------|------------|------------|------------|------------|------------|
| Isopropyl Alcohol | Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Ethylbenzene | Listed | Group 2B | Not Listed | Not Listed | Listed |
| Molybdenum sulfide | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

12. ECOLOGICAL INFORMATION**2-Propanone****Microtox Data***Photobacterium phosphoreum* EC50=14500 mg/L (15 min)**Water Flea Data***water flea* hEC50 48 (0.0039 mg/L)*water flea* hEC50 48 (12700 mg/L)*Daphnia magna* hEC50 48 (12600 mg/L)*water flea* hEC50 48 (0.0039 mg/L)**Dimethylbenzene****Microtox Data***Photobacterium phosphoreum* EC50=0.0084 mg/L (24 h)**Water Flea Data***water flea* hEC50 48 (3.82 mg/L)*Gammarus lacustris* hLC50 48 (0.6 mg/L)*water flea* hEC50 48 (3.82 mg/L)**Isopropyl Alcohol****Microtox Data***Photobacterium phosphoreum* EC50=35390 mg/L (5 min)**Water Flea Data***Daphnia magna* hEC50 48 (13299 mg/L)**Ethylbenzene****Microtox Data***Photobacterium phosphoreum* EC50=9.68 mg/L (30 min)*Nitrosomonas* EC50=96 mg/L (24 h)**Water Flea Data***Daphnia magna* hEC50 48 (1.8 - 2.4 mg/L)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION**DOT**

Consumer commodity, ORM-D

TDG

Consumer commodity, ORM-D

IMDG/IMO

UN1950 Aerosols, flammable, 2.1

IATA

ID8000 Consumer commodity, 9

MEX

UN1950 Aerosols, flammable, 2.1

15. REGULATORY INFORMATION

| Chemical Name | US EPA SARA 313 Emission Reporting |
|-------------------|------------------------------------|
| Dimethylbenzene | Listed |
| Isopropyl Alcohol | Listed |
| Ethylbenzene | Listed |

| Chemical Name | New Jersey - RTK | Pennsylvania - RTK | California Prop. 65 |
|----------------------------|------------------|--------------------|---------------------|
| Propane/Isobutane/N-Butane | Not Listed | Not Listed | Not Listed |
| 2-Propanone | Not Listed | Listed | Not Listed |
| Dimethylbenzene | Not Listed | Listed | Not Listed |
| Isopropyl Alcohol | Not Listed | Listed | Not Listed |
| Ethylbenzene | Not Listed | Listed | Carcinogen |
| Molybdenum sulfide | Not Listed | Not Listed | Not Listed |

WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

| Chemical Name | EINECS | DSL | NDSL | TSCA |
|----------------------------|--------|-----|------|------|
| Propane/Isobutane/N-Butane | X | X | - | X |
| 2-Propanone | X | X | - | X |
| Dimethylbenzene | X | X | - | X |
| Isopropyl Alcohol | X | X | - | X |
| Ethylbenzene | X | X | - | X |
| Molybdenum sulfide | X | X | - | X |

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations.

16. OTHER INFORMATION**HMIS**

Health - 2
Flammability - 4
Physical Hazard - 0

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.