

Issue Date: 20-Jan-2015

Review Date: 29-Aug.-2018

Version 3

1. IDENTIFICATION

Product Name	MOLY DRY FILM LUBRICANT
Other means of identification	
Item #	M-15781 M-15787
Recommended Use	Lubricant
Supplier Address	Ashburn Chemical Technologies 7403 Wright Rd Houston, TX 77041
Company Phone Number	832-399-1000
Emergency Telephone (24 hr)	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification	Classified according to the US OSHA HazCom Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR-WHMIS 2015)	
	Flammable liquid	Category 4
	Aspiration Hard	Category 1
Signal Word	DANGER	
Hazard Statements	H227 Combustible liquid. H304 May be fatal if swallowed and enters airways.	



Precautionary Statements - Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
 –No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P370+P378 In case of fire: Use dry sand, dry chemicals, or alcohol resistant foam for extinction.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 Do not induce vomiting.

Precautionary Statements- Storage P403 Store in a well-ventilated place
 P405 Store locked up

Precautionary Statements - Disposal

P501 Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum distillates, hydrotreated light	64742-47-8	90-100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper Eye lids. Consult a physician.
Skin Contact	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Ingestion	Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects

Symptoms	May cause mild skin irritation, symptoms include redness, burning, dry/cracking of the skin. Defatting of the skin. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema See SECTION 11 for delayed and chronic effects.
Notes to Physician	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

5. FIRE-FIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. DO NOT use stream of water (could cause fire to spread).
Specific Hazards Arising from the Chemical	A mixture of liquids and gases including smoke, fumes, carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion
Protective equipment / Precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin or eyes. Avoid breathing dust/fume/gas/mist/vapors/spray See SECTION 8 for Personal Protective Equipment
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Environmental Precautions	Prevent entry into waterways, rivers, lakes, drains, surface water, or ground water. Prevent further leakage or spillage if safe to do so. See SECTION 12 for Ecological Information
Methods for Clean-Up	Absorb or cover with dry earth, sand or other non-combustible material. Sweep up absorbed material and shovel into suitable containers for disposal. If the product contaminates rivers and lakes or drains inform respective authorities Discard any product, residue, disposable container or liner in full compliance with federal state, and local regulations. See SECTION 13 for Waste Disposal

7. HANDLING AND STORAGE

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. See SECTION 8 for Personal Protection. See SECTION 2 for Precaution Statements.
Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Store away from heat and open flame. Storage temperature 5-40°C (41-104°F)
Incompatible Materials	Oxidizing agents. Strong alkalis. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH STEL
PET distillates, hydrotreated, light 64742-47-8	TWA: 5 mg/m ³ 500 ppm STEL: 10 mg/m ³ TWA: 200 mg/m ³ (total hydrocarbon vapor)	5 mg/m ³ 8 hours (mist). 500 ppm TWA: 2,000 mg ³ 500 PPM OSHA Z-1	STEL: 10 mg/m ³ 15 minutes. NIOSH REL TWA 350 mg/m ³ C 1800 mg/m ³ (15 min)

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit

Appropriate engineering controls	Provide exhaust ventilation or adequate ventilation is required to keep airborne concentrations of vapors below their respective threshold limit value (TLV).
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Personal Protective Equipment

Eye/Face Protection	Safety glasses with side shields.
Skin and Body Protection	Chemical or oil resistant clothing is recommended.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/ Physical State	Opaque liquid	Odor	Mild PET odor
Color	Grey	Odor Threshold	Not determined
Property	Values	Remarks • Method	
pH	N/A		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	240-275 °C / 464-528 °F		
Flash Point	> 60 °C / > 140 °F	Pensky-Martens Closed Cup (PMCC)	
Evaporation Rate	< 1		
Flammability	Combustible liquid		
Upper Flammability Limits	7.0% (V)		
Lower Flammability Limit	0.7% (V)		
Vapor Pressure	0.2- 0.6 mmHg@ 20 °C		
Vapor Density	5.4	(Air=1)	
Specific Gravity	0.75-0.85		
Solubilité dans l'eau	Insoluble		
Solubility in other solvents	Not determined		
Kinematic Viscosity	1.8 mm ² /s	@ 38°C (100°F)	
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
VOC content	6.8 lb/gal (Appx)		

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible Materials.
Incompatible Materials	Oxidizing agents. Strong alkalis. Strong acids.
Hazardous Decomposition Products	Thermal decomposition and combustion are not expected to occur except under extreme conditions.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye Contact	May cause temporary irritation on eye contact.
Skin Contact	Prolonged contact may cause redness and irritation, but is neither an irritation or sensitizer
Inhalation	Harmful if inhaled.
Ingestion	May be fatal if swallowed and enters airways. Do not induce vomiting, may increase risk of product aspiration

Information on physical, chemical and toxicological effects**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
PET distillates, hydrotreated, light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5 mg/l 4hr (Rat)

Aspiration hazard	May be fatal if swallowed and enters airways.
Carcinogenicity	Carcinogenic potential is unknown.
STOT- repeated/single exposure	No data available
Gem Cell Mutagenicity	No data available.
Reproductive Toxicity	No reproductive effects.
Other information	Risk of chemical pneumonia after aspiration into lung
Unknown Acute Toxicity	10-15% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>	Information not available
Persistence/Degradability	Not inherently biodegradable
Bioaccumulation	Bioaccumulation is unlikely to be significant because of the low water solubility
Mobility	Liquid under most environmental conditions. Float on water. If enters soil it will absorb to soil particles and will not be mobile
Other Adverse Effects	Not determined.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a maine pollutant, or specifically listed as a hazardous substance.
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DOT	Not regulated
ATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemique	TSCA	DSL	NDSL	INSQ	EINECS	ELINCS	AICS	ENCS	IECSC	KECL	AICS
PET distillates, hydrotreated light 64742-47-8	X	X	-	X	265-149-8	-	X	-	x	KE 12550	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
INSQ - Mexico National Inventory of Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

WHMIS Classification

B3: Combustible liquid
 D2B: Materials Causing Other Toxic Effects (Toxic)

US Regulations**EPCRA – Emergency Planning and Community Right-to-Know Act****CERCLA**

This material does not contain a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

SARA 311/312 Hazard Categories

Fire Hazard. Acute Health Hazard

SARA 313

This product does not contain any chemical(s) regulated under the Section 313 Title III of the Superfund Amendments and Reauthorization Act

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

NFPA**Health Hazards**

1

Flammability

2

Instability

0

Special Hazards

Not determined

HMIS**Health Hazards**

1

Flammability

2

Physical Hazards

0

Personal Protection

Not determined

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Notes:

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet