

# SAFETY DATA SHEET

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#### **1. IDENTIFICATION** Product identifier **Product Name** Marine Moly Aerosol Other means of identification Recommended use of the chemical and restrictions on use Lubricants, Greases and Release Products **Recommended Use** Uses advised against No information available Details of the supplier of the safety data sheet **Supplier Identification** Jet-Lube LLC Address Jet-Lube LLC 930 Whitmore Drive, Rockwall, Texas 75087 +1-713-670-5700 Telephone Sales@jetlube.com E-mail Emergency telephone number 1-888-771-7775 **Company Emergency Phone** CHEMTREC: +1-703-527-3887 (INTERNATIONAL) Number 1-800-424-9300 (NORTH AMERICA) **Emergency Telephone Number**

# 2. HAZARDS IDENTIFICATION

#### **Classification**

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable Aerosols	Category 1
Gases Under Pressure	Liquefied Gas



Appearance Black

Physical state Aerosol

Odor Petroleum

#### GHS Label elements, including precautionary statements

#### Danger

#### Hazard statements

May cause genetic defects May cause cancer Causes damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways Extremely flammable aerosol Contains gas under pressure; may explode if heated



#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up Protect from sunlight. Store in a well-ventilated place Do not expose to temperatures exceeding 50 °C/122 °F

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Unknown acute toxicity 98.355 % of the mixture consists of ingredient(s) of unknown toxicity

- 98.355 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 98.355 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS-No	Percent	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	35 - 40	-	-
Petroleum distillates	68476-85-7	20 - 25	-	-
Residual oils (petroleum), solvent refined	64742-01-4	20 - 25	-	-
Graphite	7782-42-5	5-10	-	-
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	1 - 5	-	-

# 4. FIRST AID MEASURES

First aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.		
Inhalation	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur.		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.		
Skin contact	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.		
Ingestion	Aspiration hazard if swallowed - can enter lungs and cause damage. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.		
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Difficulty in breathing. Coughing and/ or wheezing. Dizziness.		
Indication of any immediate medical attention and special treatment needed			



**Note to physicians** Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. FIRE-FIGHTING MEASURES				
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray.			
Unsuitable extinguishing media	DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.			
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket.			
Hazardous Combustion Products	Carbon oxides.			
Explosion Data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t Yes. Yes.			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.			
Other Information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.			
Environmental precautions				
Environmental precautions	See Section 12 for additional Ecological Information.			
Methods and material for containm	and material for containment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Flood with water to complete polymerization and scrape off floor.			
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapors or mists. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.<br/>Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric<br/>motors and static electricity). Keep in properly labeled containers. Do not store near<br/>combustible materials. Keep in an area equipped with sprinklers. Store in accordance with<br/>the particular national regulations. Store in accordance with local regulations. Store locked<br/>up. Keep out of the reach of children. Store away from other materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH 1	ΓLV	0	SHA PEL		NIOSH IDLH
Petroleum distillates		: See Appendix F: Minimal		.: 1000 ppm		IDLH: 2000 ppm
68476-85-7	Oxygen Content	t, explosion		1800 mg/m³		TWA: 1000 ppm
	hazar	d		TWA: 1000 ppm		TWA: 1800 mg/m <sup>3</sup>
				TWA: 1800 mg/m <sup>3</sup>		
Residual oils (petroleum)	TWA: 5 mg/m <sup>3</sup> ,	as oil mist,	TWA: 5 m	g/m³, as oil mist,		
solvent refined	minera	al		mineral		
64742-01-4	STEL: TWA: 10 r	ng/m³, as oil				
	mist, min	eral				
Graphite	TWA: 2 mg/m <sup>3</sup>		TWA: 15	mg/m <sup>3</sup> total dust		IDLH: 1250 mg/m <sup>3</sup>
7782-42-5		particulate matter all forms		synthetic		A: 2.5 mg/m <sup>3</sup> respirable
	except graph	ite fibers		ng/m³ respirable		dust
				on synthetic		
				TWA: 2.5 mg/m <sup>3</sup>		
				le dust natural		
			1 Y Y	VA: 10 mg/m <sup>3</sup> total		
				t synthetic		
				) TWA: 5 mg/m³		
				fraction synthetic		
				5 mppcf natural		
Chemical name	Alberta		Columbia	Ontario TWAE	-	Quebec
Petroleum distillates	TWA: 1000 ppm		000 ppm	TWA: 1000 pp	m	TWA: 1000 ppm
68476-85-7	STEL: 1500 ppm		250 ppm			TWA: 1800 mg/m <sup>3</sup>
Graphite	TWA: 2 mg/m <sup>3</sup>	TWA: 2	2 mg/m³	TWA: 2 mg/m	3	TWA: 2 mg/m <sup>3</sup>
7782-42-5						

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

#### Appropriate engineering controls



Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Impervious gloves. Wear suitable gloves. Nitrile rubber. Rubber gloves. Neoprene gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties	_	
Physical state	Aerosol	
Appearance	Black	
Odor	Petroleum	
Color	Black	
Odor Threshold	No information available	
<u>Property</u>	Values	Remarks Method
рН	7	
Melting / freezing point	No data available	None known
Boiling point / boiling range	>371	None known
Flash Point	232	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.03	
Water Solubility	Insoluble	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
Other Information		
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	<70	
Liquid Density	No information available	

No information available



Liquid Density

Bulk Density Particle Size Particle Size Distribution	No information available No information available No information available
	10. STABILITY AND REACTIVIT
Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Excessive heat.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products	s Carbon oxides.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

#### Information on toxicological effects

Symptoms

Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Numerical measures of toxicity

**Acute Toxicity** 

**Unknown acute toxicity** 98.355 % of the mixture consists of ingredient(s) of unknown toxicity

98.355 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

98.355 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

98.355 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent naphtha (petroleum),	> 25 mL/kg (Rat)	> 3000 mg/kg (Rabbit)	> 13 mg/L (Rat)4 h



medium aliphatic			
Residual oils (petroleum), solvent refined	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat)4 h
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Classification based on data available for ingredients. Contains a known or suspected carcinogen.

#### The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Residual oils (petroleum), solvent refined 64742-01-4	A2	Group 1	Known	Х
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	A2	Group 1	Known	Х

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present		
Reproductive toxicity	No information available.	
STOT - single exposure No information available.		
<b>STOT - repeated exposure</b> Causes damage to organs through prolonged or repeated exposure.		

Aspiration hazard May be fatal if swallowed and enters airways.

# **12. ECOLOGICAL INFORMATION**

#### **Marine Pollutant**

This product contains a chemical which is listed as a marine pollutant according to DOT

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Solvent naphtha	96h EC50: = 450 mg/L	96h LC50: = 800 mg/L	-	48h EC50: > 100 mg/L
(petroleum), medium	(Pseudokirchneriella	(Pimephales promelas)		_
aliphatic	subcapitata)			



#### - Marine Moly Aerosol

Residual oils (petroleum),	-	96h LC50: > 5000 mg/L	-	48h EC50: > 1000 mg/L
solvent refined		(Oncorhynchus mykiss)		
Petroleum distillates,	-	96h LC50: > 5000 mg/L	-	48h EC50: > 1000 mg/L
hydrotreated heavy		(Oncorhynchus mykiss)		
naphthenic				

### Persistence and Degradability

No information available.

#### **Bioaccumulation**

Chemical name	Log Pow
Petroleum distillates	2.8
Petroleum distillates, hydrotreated heavy naphthenic	>6

Mobility	No information available.
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#### Other adverse effects No information available.

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	D001

#### California Hazardous Waste Codes 331

# **14. TRANSPORT INFORMATION**

DOT UN-No. Proper Shipping Name Hazard Class Marine Pollutant Description	UN1950 AEROSOLS 2.1 This product contains a chemical which is listed as a marine pollutant according to DOT UN1950, AEROSOLS, 2.1 (SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC)
TDG Proper Shipping Name Description	AEROSOLS UN1950, AEROSOLS, 2.1
<u>MEX</u> UN-No. Proper Shipping Name Hazard Class Description	UN1950 AEROSOLS 2.1 UN1950, AEROSOLS, 2.1
ICAO UN-No. Proper Shipping Name Hazard Class Description	UN1950 AEROSOLS 2.1 UN1950, AEROSOLS, 2.1



IATA Proper Shipping Name ERG Code Description	AEROSOLS, FLAMMABLE 10L UN1950, AEROSOLS, FLAMMABLE, 2.1
IMDG/IMO Proper Shipping Name EmS-No. Description	AEROSOLS F-D, S-U UN1950, AEROSOLS, 2.1
<u>RID</u> UN-No. Proper Shipping Name Hazard Class Classification code Description	UN1950 AEROSOLS 2.1 5F UN1950, AEROSOLS, 2.1
ADR UN-No. Proper Shipping Name Hazard Class Classification code Tunnel restriction code Description	UN1950 AEROSOLS 2.1 5F (D) UN1950, AEROSOLS, 2.1, (D)
ADN UN-No. Proper Shipping Name Hazard Class Classification code Special Provisions Description Hazard Labels Limited Quantity Ventilation	UN1950 AEROSOLS 2.1 5F 190, 327, 344, 625 UN1950, AEROSOLS, 2.1 2.1 1 L VE01, VE04

# **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories	
TSCA	Complies
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory



DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusett	Pennsylvania	Rhode Island	Illinois
		S			
Petroleum distillates 68476-85-7	Х	Х	Х	Х	
Residual oils (petroleum), solvent refined 64742-01-4					Х
Graphite 7782-42-5	Х	Х	Х	Х	
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5					Х

16. OTHER INFORMATION							
NFPA	Health hazards 2	Flammability 4	Instability 0	Physical and Chemical Properties -			
<u>HMIS</u>	Health hazards 2 *	Flammability 4	Physical hazards 0	Personal Protection X			



Chronic Hazard Star Legend	* = Chronic Health Hazard
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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Revision Note	No information available

#### 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**

