



SAFETY DATA SHEET

Issuing Date 20-Nov-2014

Revision Date 19-Dec-2014

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name MOLY-MIST™ AEROSOL

Other means of identification

Product Code(s) 16041

UN-Number UN1950

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricants, Greases and Release Products, Coatings & Paints

Uses advised against No information available

Supplier's details

Manufacturer Address

Jet-Lube, Inc.
4849 Homestead Rd.
Suite 232
Houston, Texas 77028
TEL: 713-670-5700 (7:00 a.m. - 5:00 p.m.)

Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION


Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

| | |
|---|----------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Skin Sensitization | Category 1 |
| Specific Target Organ Systemic Toxicity (Single Exposure) | Category 3 |
| Aspiration Toxicity | Category 1 |
| Flammable aerosols | Category 1 |
| Gases under pressure | Compressed gas |

GHS Label elements, including precautionary statements

Emergency Overview

| | | |
|--|--------------------------------|---------------------|
| Signal Word | Danger | |
| Hazard Statements | | |
| <ul style="list-style-type: none">• Causes skin irritation• Causes serious eye irritation• May cause an allergic skin reaction• May cause drowsiness or dizziness• May be fatal if swallowed and enters airways•• Extremely flammable aerosol• Contains gas under pressure; may explode if heated | | |
|  | | |
| Appearance Black | Physical State Aerosol. | Odor Etheryl |

Precautionary Statements**Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Do not spray on an open flame or other ignition source
- Pressurized container: Do not pierce or burn, even after use.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- Specific treatment (see supplemental first aid instructions on this label)

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Storage

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

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

8.1% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade secret |
|---------------------------------------|---------------|-----------------|---------------------|
| Acetone | 67-64-1 | 30-36 | * |
| Petroleum distillates | 68476-85-7 | 20-25 | * |
| Methyl ethyl ketone | 78-93-3 | 15-19 | * |
| Xylenes (o-, m-, p- isomers) | 1330-20-7 | 7.5-11 | * |
| Bisphenol A - Epichlorohydrin polymer | 25068-38-6 | 7-9 | * |
| Molybdenum (IV) sulfide | 1317-33-5 | 5.75-8 | * |

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

| | |
|-----------------------------------|---|
| General Advice | Show this safety data sheet to the doctor in attendance. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. |
| Inhalation | Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| Ingestion | Not an expected route of exposure. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water. Consult a physician. |
| Protection of First-aiders | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Itching Rashes Drowsiness. Dizziness.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Containers may explode when heated.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes.

Protective Equipment and 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, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged packages or spilled material. Contents under pressure. In case of rupture: Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Incompatible with strong oxidizing agents, strong reducing agents, strong acids, and strong bases.

Incompatible Products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-------------------------------------|-------------------------------|---|--|
| Acetone 67-64-1 | STEL: 750 ppm TWA: 500 ppm | TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm | IDLH: 2500 ppm 10% LEL TWA: 250 ppm TWA: 590 mg/m ³ |
| Petroleum distillates 68476-85-7 | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³ | IDLH: 2000 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ |

| | | | |
|---|--|--|--|
| Methyl ethyl ketone 78-93-3 | STEL: 300 ppm TWA: 200 ppm | TWA: 200 ppm TWA: 590 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m ³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m ³ | IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³ |
| Xylenes (o-, m-, p- isomers) 1330-20-7 | STEL: 150 ppm TWA: 100 ppm | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³ | - |
| Molybdenum (IV) sulfide 1317-33-5 | TWA: 10 mg/m ³ Mo inhalable fraction TWA: 3 mg/m ³ Mo respirable fraction | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ Mo | IDLH: 5000 mg/m ³ Mo |

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Wear protective gloves/clothing.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|---------|-----------------------|--------------------------|
| Physical State | Aerosol | Appearance | Black |
| Odor | Etheryl | Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks/ - Method</u> |
|---|---------------------|--------------------------|
| pH | Neutral | None known |
| Melting Point/Range | -95.35 °C | None known |
| Boiling Point/Boiling Range | -18 - 162 °C | None known |
| Flash Point | > -20 °C | None known |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limits in Air | | |
| 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 |
| Specific Gravity | 0.85 | None known |
| Water Solubility | Largely | None known |
| Solubility in other solvents | Completely soluble. | None known |
| Partition coefficient: n-octanol/water | -0.2 | None known |
| Autoignition Temperature | No data available | None known |
| Decomposition Temperature | No data available | None known |
| Viscosity | No data available | None known |

Flammable Properties Flammable aerosol.

Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) 58.9 g/L

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from direct sunlight. Do not puncture or incinerate cans.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information****Inhalation**

Vapors may irritate throat and respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Eye Contact

Causes serious eye irritation.

Skin Contact

Causes skin irritation. Repeated exposure may cause skin dryness or cracking. May cause allergic skin reaction

Ingestion

Not an expected route of exposure. Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------------------|----------------------|-------------------------|--|
| Acetone | = 5800 mg/kg (Rat) | 1700mg/kg (rabbit) | 18892 mg/m ³ |
| Methyl ethyl ketone | = 2737 mg/kg (Rat) | = 6480 mg/kg (Rabbit) | 23500 mg/m ³ |
| Xylenes (o-, m-, p- isomers) | = 4300 mg/kg (Rat) | 2000 mg/kg (Rabbit) | >5.04 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h |
| Bisphenol A - Epichlorohydrin polymer | 11400 mg/kg (Rat) | - | - |
| Molybdenum (IV) sulfide | - | - | > 2820 mg/m ³ (Rat) 4 h |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization May cause sensitization by skin contact.
Mutagenic Effects No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Xylenes (o-, m-, p- isomers) | A4 | Group 3 | - | - |

IARC: (International Agency for Research on Cancer)
 Group 3 - Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration Hazard May be fatal if swallowed and enters airways

Numerical measures of toxicity - Product

Acute Toxicity 8.1% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 6785 mg/kg; Acute toxicity estimate

LD50 Dermal 11761 mg/kg; Acute toxicity estimate

Inhalation

gas 45000

dust/mist 15 mg/L; Acute toxicity estimate

Vapor 110 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

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

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|--|---|---|---|
| Acetone 67-64-1 | | LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus) | EC50 = 14500 mg/L 15 min | EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna) |
| Methyl ethyl ketone 78-93-3 | | LC50 96 h: 3130-3320 mg/L flow-through (Pimephales promelas) | EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min | EC50 48 h: 4025 - 6440 mg/L Static (Daphnia magna) EC50 48 h: = 5091 mg/L (Daphnia magna) EC50 48 h: > 520 mg/L (Daphnia magna) |
| Xylenes (o-, m-, p- isomers) 1330-20-7 | EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: = 8 mg/L (Rainbow trout) | | EC50 48 h: = 3.82 mg/L (water flea) |

Persistence and Degradability No information available.

Bioaccumulation

| Chemical Name | Log Pow |
|------------------------------|---------|
| Acetone | -0.24 |
| Petroleum distillates | 2.8 |
| Methyl ethyl ketone | 0.29 |
| Xylenes (o-, m-, p- isomers) | 3.15 |

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Do not re-use empty containers.

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|-------------------|--|----------------------------------|------------------------|
| Acetone - 67-64-1 | | Included in waste stream: F039 | | U002 |
| Methyl ethyl ketone - 78-93-3 | waste number U159 | Included in waste streams: F005, F039 | = 200.0 mg/L regulatory level | U159 |
| Xylenes (o-, m-, p- isomers) - 1330-20-7 | | Included in waste stream: F039 | | U239 |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste |
|------------------------------|----------------------------|
| Acetone | Ignitable |
| Methyl ethyl ketone | Toxic Ignitable |
| Xylenes (o-, m-, p- isomers) | Toxic Ignitable |

14. TRANSPORT INFORMATION

DOT

UN-Number UN1950
Proper shipping name Aerosols
Hazard Class 2.1
Subsidiary Class
Description UN1950,Aerosols ,2.1
Emergency Response Guide Number 126

TDG

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950,AEROSOLS,2.1

MEX

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950 Aerosols,2.1

ICAO

UN-Number UN1950
Proper shipping name Aerosols
Hazard Class 2.1
Description UN1950,Aerosols,2.1

IATA

UN-Number UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG Code 10L
Description UN1950,Aerosols, flammable,2.1

IMDG/IMO

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1

EmS No. F-D, S-U
Description UN1950, Aerosols,2.1,FP -20C

RID

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Classification Code 5F
Description UN1950 Aerosols,2.1,

ADR

UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Classification Code 5F
Description UN1950 Aerosols,2.1,

ADN

UN-No UN1950
Proper Shipping Name Aerosols (Mixture)
Hazard Class 2.1
Classification Code 5F
Special Provisions 190, 327, 625
Description UN1950 Aerosols,2.1,,Mixture
Hazard Labels 2.1
Limited Quantity LQ2
Ventilation VE01, VE04

15. REGULATORY INFORMATION

International Inventories**Legend**

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

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

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|------------------------------|-----------|----------|-------------------------------|
| Xylenes (o-, m-, p- isomers) | 1330-20-7 | 7.5-11 | 1.0 |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard Yes
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Xylenes (o-, m-, p- isomers) | 100 lb | | | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------|--------------------------|------------------------------------|--|
| Acetone | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

| | | | |
|------------------------------|---------|--|--|
| Methyl ethyl ketone | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Xylenes (o-, m-, p- isomers) | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|------------------------------|------------|---------------|--------------|----------|--------------|
| Acetone | X | X | X | | X |
| Petroleum distillates | X | X | X | | X |
| Methyl ethyl ketone | X | X | X | X | X |
| Xylenes (o-, m-, p- isomers) | X | X | X | X | X |
| Molybdenum (IV) sulfide | | X | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

| | | | | |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <u>NFPA</u> | Health Hazard 2 | Flammability 4 | Instability 0 | Physical and Chemical Hazards - |
| <u>HMIS</u> | Health Hazard 2 | Flammability 4 | Physical Hazard 0 | Personal Protection X |

Prepared By Product Stewardship
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Revision Note (M)SDS sections updated: 1, 2.

General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet