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SDS

Safety Data Sheet

02-14-2025

General Purpose Moly

Section 1 - Product Identification

Product Name: General Purpose Moly
 Product Part Number: GPM
 Product Type: Valve Lubricant
 Chemical family: Mixture: Proprietary Oil, Silicon Dioxide and Molybdenum Disulfide.

Recommended use of the chemical and restrictions on use:

Application _____ Valve Lubricant
 Uses advised against _____ DO NOT use this material in oxygen service.

Details of the supplier of the safety data sheet:

Supplier:
 DUALCO, Inc.
 8404 Braniff, Houston, Texas 77061
 Telephone: 713-644-1164 Website: dualco-inc.com

Manufacturer:
 Lubchem, Inc.
 23609 W. Hardy Road, Spring, TX 77373
 Telephone: 281-350-9600 Website: lubchem.com

Emergency Telephone Number:

Emergency Telephone _____ 281-350-9600

Section 2 - Hazardous Identification

Classification of the Chemical or Mixture

Appearance / Odor: Black Viscous Paste / Slight Odor

Hazardous Ingredients:
 None Classified

Label Elements

Hazard Pictogram(s): None required
Signal Word: None required
Hazard Statement(s): None required
Precautionary Statement(s): None required
Other Hazards: None Known

Other Hazards

This product does not contain any substances classified as PBT or vPvB.

NFPA Codes	
Health	0
Flammability	1*
Reactivity	0

* Must be preheated before ignition can occur.

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Section 3 - Composition / Information on Ingredients

Mixtures

Chemical Name	CAS Number	Composition (% w/w)
Proprietary Oil	~	~
Silicon Dioxide Amorphous	112945-52-5	5 - 10
Molybdenum Disulfide	1317-33-5	~

The exact details of the above listed chemicals are being withheld as a trade secret in accordance with 29 CFR 1910.1200.

Section 4 - First Aid Measures

First Aid Measures

General information:

If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel. First Aider needs to protect themselves.

Eye Contact:

Remove any contact lenses. Flush eyes with water for 15 minutes while holding eyelids open.

Inhalation:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Ingestion:

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin Contact:

Prolonged contact may cause dryness of the skin.

Most important symptoms and effects, both acute and delayed:

General information: See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion: Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact: Prolonged contact may cause dryness of the skin.

Eye contact: May cause temporary eye irritation.

Notes to Physician: Treat symptomatically. **Specific Treatments:** None Known.

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Section 5 - Fire Fighting Measures

Extinguishing Media

- **Appropriate Extinguishing Media:**
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
- **Inappropriate Extinguishing Media:**
Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards

Combustion Products:

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Explosion Hazard:

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Advice for Firefighters

Protective actions during firefighting:

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

Environmental Precautions:

Avoid discharge to the aquatic environment. **Large Spillages:** Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

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Section 6 - Accidental Release Measures (cont.)

Methods for Cleaning Up:

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind.

Small Spillages: Absorb the spillage with an inert, dry material and place it in a suitable waste disposal container.

Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections:

For personal protection, see Section 8.

Section 7 - Handling and Storage

Precautions for Safe Handling

Usage Precautions:

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Advice on General Occupational Hygiene:

Avoid contact with skin, eyes and clothing. Do not ingest. Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, drinking, smoking or using the toilet.

Storage Precautions:

Store containers in a cool dry place and away from direct sunlight. Keep containers away from heat and sources of ignition. Store in original container. Keep container closed when not in use. Store in accordance with local regulations.

•• Containers can burst violently or explode when heated, due to excessive pressure.

Storage Class:

Unspecified

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Section 8 - Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Components	CAS Number	Exposure Limits:		
		Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon Dioxide Amorphous	112945-52-5	8-Hour TWA	20 mppcf	OSHA*

* OSHA = Occupational Safety and Health Administration.

Exposure Controls

Appropriate Engineering Controls:

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Protective Equipment:



Eye/Face Protection:

Eye-wear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. The following protection should be worn: Chemical splash goggles.

Hand Protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Respiratory Protection:

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation.

Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Other Skin and Body Protection:

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene Measures:

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Environmental exposure controls: Not regarded as dangerous for the environment.

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Section 9 - Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

General Information:

Physical State: _____ Semi Solid - Meets MIL-G-6032
 Color: _____ Black
 Odor: _____ Slight
 Odor Threshold _____ No Data Available

Basic Physical and Chemical Properties:

pH: _____ No Data Available
 Melting Point: _____ None
 Initial Boiling Point & Range: _____ Not Applicable
 Flash Point (C.O.C.): _____ 191°C (375°F) Method: Cleveland Open Cup
 Auto-ignition temperature _____ No Data Available
 Evaporation Rate: _____ No Data Available
 Decomposition Temperature: _____ No Data Available
 Upper/lower flammability or explosive limits: _____ No Data Available
 Vapor pressure: _____ No Data Available
 Relative density: _____ No Data Available
 Vapor density: _____ No Data Available
 Specific Gravity (H2O = 1): _____ 1.12
 Solubilities: _____ Water: Insoluble
 Partition coefficient: _____ No Data Available
 Viscosity: _____ No Data Available
 Explosive properties: _____ Not Applicable
 Oxidizing properties _____ No Data Available

Section 10 - Stability And Reactivity

Reactivity:

There are no known reactivity hazards associated with this product.

Chemical Stability:

Stable at normal ambient temperatures and when used as recommended.
 Stable under the prescribed storage conditions.

Conditions to Avoid:

Keep containers away from heat and sources of ignition.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides.

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Section 11 - Toxicological Information

Likely Routes of Exposure:

Eyes
Inhalation
Ingestion
Skin Contact

Acute toxicity:

Toxicological Effects:

Acute Oral Toxicity _____ Based on available data the classification criteria are not met.
Acute inhalation toxicity _____ Based on available data the classification criteria are not met.
Acute dermal toxicity _____ Based on available data the classification criteria are not met.
Toxicological effects _____ Not regarded as a health hazard under current legislation..

Corrosion, Irritation, Sensitization:

Skin corrosion/irritation _____ Based on available data the classification criteria are not met.
Serious eye damage/eye irritation _____ Based on available data the classification criteria are not met.
Respiratory or skin sensitization _____ Based on available data the classification criteria are not met.

Germ Cell Mutagenicity:

Genotoxicity- in Vitro _____ Based on available data the classification criteria are not met.

Carcinogenicity:

IARC carcinogenicity _____ None of the ingredients are listed or exempt.
Carcinogenicity _____ Based on available data the classification criteria are not met.

Reproductive toxicity:

Fertility _____ Based on available data the classification criteria are not met.
Development _____ Based on available data the classification criteria are not met.

Specific target organ toxicity:

STOT - single exposure _____ Not classified as a specific target organ toxicant after single exposure.
STOT - repeated exposure _____ Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Aspiration hazard _____ Based on available data the classification criteria are not met.

General Information:

General: No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Prolonged inhalation of high concentrations may damage respiratory system.

Skin Contact: Prolonged contact may cause dryness of the skin.

Eye contact: May cause temporary eye irritation.

Target Organs: No specific target organs known.

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Section 12 - Ecological Information

Eco-toxicity:

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity:

Based on available data the classification criteria are not met.

Persistence and Degradability:

The degradability of the product is not known.

Bio-Accumulative Potential:

Bio-Accumulative Potential:

No data available on bio-accumulation.

Partition Coefficient:

No data available.

Mobility in Soil:

No data available.

Other adverse effects:

None known.

Section 13 - Disposal Considerations

Waste Treatment Methods:

General information

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods:

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

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Section 14 - Transport Information

General:

This product is not regulated for transport by DOT

Section 15 - Regulatory Information

General:

TSCA _____ All the ingredients are listed or exempt.

Section 16 - Other Information

General information _____ Only trained personnel should use this material.

Training advice _____ Contact the Supplier. Only trained personnel should use this material.

Revision comments _____ Updated to meet OSHA updated GHS Standard.

Revision date _____ 02 / 14 / 2025

Supersedes date _____ 01 / 06 / 2016

End of SDS

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29CFR1910.1200). The information herein is given in good faith, but no warranty, express or implied, is made. Consult Dualco Inc. for further information: 713-644-1164.