



Product Name: MO-10 Moist-Out

Revision No.: 3

Issue Date: 1-12-2009

Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name: MO-10 Moist-Out

Intended Use(s): Demoisturant, light lubricant, penetrating oil and rust inhibitor

Manufacturer: Muscle Products Corp.
752 Kilgore Road
Jackson Center, PA 16133 U.S.A.

Information Telephone Number: 1-800-227-7049 U.S. & Canada

1-814-786-0166 International

Company Web Site: www.mpclubricants.com

24-Hour Emergency Telephone: 1-800-535-5053 Infotrac – U.S. & Canada

1-352-323-3500 Infotrac – International

Section 2: HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Light green, low viscosity liquid. Mild petroleum odor.

Health Hazards: CAUTION! May cause eye and skin irritation. May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Safety Hazards: WARNING! Slipping hazard if spilled. Never spray a demoisturant on a live circuit. Serious shock or injury may occur.

Potential Health Hazards: See Section 11 for more information.

Likely Routes of Exposure: Skin, eyes, inhalation.

Inhalation: This product is not expected to pose an inhalation risk where exposure limits are observed. Heating or other mechanical actions can generate oil mist, fumes or vapors that may cause respiratory tract irritation, dizziness, headaches or nausea.

Ingestion: Swallowing can cause generalized depression, headache, throat irritation, drowsiness, nausea, diarrhea, or vomiting. Vomiting may cause aspiration into the lungs with a risk of chemical pneumonitis.

Skin Contact: May cause skin irritation. Prolonged and repeated contact can de-fat the skin, which may result in dryness, redness, itching, and cracking of the skin (dermatitis).

Eye Contact: May cause eye irritation, resulting in redness or burning. Prolonged or repeated eye contact may cause conjunctivitis.

Medical Conditions

Aggravated by Exposure: Eye or skin diseases; respiratory/lung diseases if mist/vapor is generated.

Target Organs: None known.

Other Hazards: Spillages may be slippery. Do not walk through spilled material.

Potential Environmental Effects: See Section 12 for more information.

Analysis for ecological effects has not been conducted on this product. However, if spilled, plants and animals may experience harmful effects when coated with petroleum-based products.

Other Information:

This product does not contain any carcinogens as listed by OSHA, IARC or NTP.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

OSHA Hazardous Components

Component	CAS No.	% by Wt.	Carcinogen
Highly refined mineral oil	64742-52-5	80 - 94%	No
Petroleum hydrocarbons	Proprietary*	5 - 9 %	No
Antiwear, extreme-pressure additive	N/A - mixture*	< 3%	No

Additional Information: * The specific chemical identity is being withheld as a trade secret. This component contains no carcinogens, mutagens or toxic substances.

Section 4: FIRST AID MEASURES

Eye Contact:	Immediately flush with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists. Wash clothing and clean shoes before reuse.
Inhalation:	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion:	Do NOT induce vomiting. If vomiting occurs, have person lean forward with head below hips to prevent aspiration into the lungs. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Note to Physicians: Treat symptomatically.

Additional Advice: None

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use water spray, water fog, dry chemical, foam, carbon dioxide, earth or sand.
Unsuitable Extinguishing Media:	Do not use a forced stream of water as this may cause fire to spread.
Products of Combustion:	Carbon dioxide, carbon monoxide, unidentified organic compounds, smoke and irritating vapors.
Firefighter Protection:	Water and foam may cause frothing. Wear full protective clothing and self-contained breathing apparatus.
Additional Advice:	Use waterspray to disperse vapors and keep adjacent containers cool.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Eliminate all ignition sources. Evacuate personnel to a safe area. Use appropriate personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Warning: Spillages may be slippery. Do not walk through spilled material.
Environmental Precautions:	Contain spill to prevent environmental contamination. Keep from entering drains, sewers, waterways or soil.
Methods for Containment:	Stop the spill or leak if possible without personal risk. Absorb with sand, earth or other inert material.
Methods for Clean-Up:	Vacuum, scoop or sweep up material. Place waste in container, seal and dispose of safely.
Other Information:	Observe all federal, state and local regulations.

Section 7: HANDLING AND STORAGE

- Handling:** Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid prolonged skin contact. If aerosolizing, misting or heating product, do not breath vapor, fumes or mist. Use adequate ventilation if concentrations exceed permissible exposure limits. Wash hands thoroughly after handling and before eating or drinking. Launder contaminated clothing before reuse. Avoid elevated temperatures to prevent product degradation. Do not discharge into drains or the environment. Keep containers closed when not in use. Empty container contains product residue which may exhibit hazards of product.
- Storage:** Do not store in temperatures exceeding 104 deg. F (40 deg. C) or in direct sunlight. Keep containers closed and dry. Store in a cool, dry place. Store away from heat, sparks, open flame and oxidizing materials.
- Additional Advice:** Expected storage life under recommended conditions is 2 years.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Material	OSHA-PEL	ACGIH-TLV
Mineral oil, as Oil Mist	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Mineral oil, as Oil Mist	-----	STEL: 10 mg/m ³
Petroleum hydrocarbons	Not established	Not established
Antiwear, extreme-pressure additive	Not established	Not established

- Engineering Controls:** Ventilation controls are not normally required under intended conditions of use. Provide exhaust ventilation or other engineering controls if airborne mist or vapor concentrations exceed permissible exposure limits.
- Eye / Face Protection:** Safety glasses are recommended. Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material or if handling hot product.
- Skin Protection:** Use neoprene or nitrile gloves to avoid prolonged or excessive skin contact. Other skin or body protection is normally not required except in emergency or spill conditions. Protective clothing, shoes or boots should be chemical resistant (i.e. neoprene). If handling hot material, use insulated protective clothing.
- Respiratory Protection:** Normally not required except in emergencies or circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a NIOSH-approved positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, entry into confined spaces, exposure levels are not known, or any other circumstance where air-purifying respirators may not provide adequate protection.
- General Hygiene:** Wash thoroughly after handling and before eating or drinking.
- Other Information:** Personal protective equipment (PPE) should meet recommended national standards.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Light green, low viscosity liquid.
- Odor:** Mild petroleum.
- Odor Threshold:** Not established.
- Viscosity:** ~ 3.27 cSt @ 100 deg. C
- pH:** Not established.
- Freezing Point:** < -45 deg. F (-42.8 deg. C) ASTM D2386
- Melting Point:** Not applicable.
- Boiling Point:** > 450 deg. F (232.2 deg. C) ASTM D1120
- Flash Point:** 282 deg. F (138.9 deg. C) ASTM D93

Flammable Limits:	Upper: Not established.
	Lower: Not established.
Autoignition Temperature:	Not established.
Evaporation Rate:	Not established.
Vapor Pressure:	Not established.
Vapor Density:	Not established.
Specific Gravity:	0.9065 g/cm ³ @ 60 deg. F ASTM 1298
Solubility in Water:	Insoluble.
VOC Content:	Not established.
Other Information:	None.

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal handling and storage conditions.
Conditions to Avoid:	Keep away from direct sunlight, extreme heat, hot surfaces, sparks and flame. Prolonged heating at temperatures above 158 deg. F (70 deg. C), or heating above 392 deg. F (200 deg. C) for short periods of time, may result in product decomposition. Petroleum products tend to soften or swell most natural rubbers.
Incompatible Materials:	Oxidizing agents, reducing agents and/or acids.
Hazardous Decomposition Byproducts:	Carbon dioxide, carbon monoxide, smoke, irritating vapors, unburned hydrocarbons, aldehydes and calcium oxides if combustion is incomplete. Hydrogen chloride is possible if thermal decomposition occurs.
Possibility of Hazardous Reactions:	Not expected to occur.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Oral:	No toxicity data on product. Components report LD50 > 5,000 mg/kg (rat), low toxicity.
Dermal:	No toxicity data on product. Components report LD50 > 2,000 mg/kg (rabbit), low toxicity.
Inhalation:	No toxicity data on product. Not expected to pose an inhalation risk where exposure limits are observed.
Eyes:	No toxicity data on product. Components report there is no data available to indicate product or components may be a toxic hazard to the eyes.
Sensitization:	Not expected to occur. Highly refined base oils report no skin sensitization in guinea pigs.
Other Information:	This information is provided based on available data from components or similar materials.

CHRONIC EFFECTS

Carcinogenicity:	This product is not known to contain carcinogenic substances.
Mutagenicity:	This product is not known to contain mutagenic substances.
Reproductive Effects:	This product is not expected to pose a teratogenic risk.
Developmental Effects:	This product is not expected to pose a embryotoxic risk.
Other Information:	This product has been used for years with no known ill effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not determined for this product. One component reports it is non-toxic to mussels at 2.18 mg/L and rainbow trout at 4.0 mg/L after 60 days. Another component reports LC50 10-100 mg/L for freshwater fish; EC50 1-10 mg/L for freshwater vertebrates; and EC50 100-1000 mg/L for algal inhibition.
Persistence / Degradability:	Not determined.
Bioaccumulation:	Not determined.
Mobility:	Not determined.

Additional Information: Analysis for ecological effects has not been conducted on this product. However, if spilled, plants and animals may experience harmful effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, a large spill can cause an oil layer to cover a large surface area. As a result, this oil layer may limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be enough to cause a fish kill.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: It is the responsibility of the user to evaluate at the time of disposal whether the waste meets RCRA criteria for hazardous waste. Product use, transformations, mixtures, contamination and spillage may change its characteristics. Dispose of in accordance with federal, state and local regulations.

Empty Containers: Empty container contains product residue which may exhibit hazards of the product. Do NOT puncture, cut, drill, grind, or weld on or near empty containers. Empty drums should be completely drained, properly bunged or sealed, and promptly returned to a drum reconditioner, properly disposed of, or cleaned for reuse.

Additional Considerations: Do not discharge into drains or the environment. Observe all federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

U.S. DOT (GROUND)

Hazardous Material:	No.	Class / Division:	Not applicable.
Identification Number:	Not regulated.	Packing Group:	Not applicable.
Proper Shipping Name:	Lubricant oil.		

CANADIAN TDG (GROUND)

Hazardous Material:	No.	Class / Division:	
Identification Number:	See U.S. DOT.	Packing Group:	
Proper Shipping Name:			

IATA (AIR)

Dangerous Good:	No.	Class / Division:	
Identification Number:	See U.S. DOT.	Packing Group:	
Proper Shipping Name:			

IMDG (WATER)

Dangerous Good:	No	Class / Division:	
Identification Number:	See U.S. DOT	Packing Group:	
Proper Shipping Name:		Marine Pollutant:	No.

Section 15: REGULATORY INFORMATION

TSCA Inventory Listing: The components of this product are on the U.S. TSCA Inventory or are exempt.

CERCLA Hazardous Substances (40 CFR 302): This product does not contain any known CERCLA hazardous substances.

SARA 302 Extremely Hazardous Substances (40 CFR 355): This product does not contain greater than 1.0% (0.1% for carcinogens) of any SARA extremely hazardous substance.

SARA 311/312 Hazardous Chemical Inventory Reporting (40 CFR 370): This product is subject to SARA chemical inventory reporting if quantity exceeds the minimum threshold level of 10,000 lbs. (4,540 kg).

SARA Hazard Classifications:

Immediate (acute) health hazard:	Yes
Delayed (chronic) health hazard:	No
Fire hazard:	No
Sudden pressure release hazard:	No
Reactivity hazard:	No

SARA 313 Toxic Chemical Release Reporting (40 CFR 372): This product does not contain greater than 1.0% (greater than 0.1% for carcinogens) of any toxic chemicals.

Additional Information: One or more of the components are on the following global inventories:

Asia-Pacific: ASIA-PAC

Australia: AICS

Canada: DSL

Europe: EINECS, SWISS Giftliste

Japan: ENCS

Korea: ECL

New Zealand: NZIoC

Philippines: PICCS

Section 16: OTHER INFORMATION

HMIS RATING CLASSIFICATION

Health: 1

Flammability: 1

Physical Hazard: 0

Personal Protection: B

NFPA HAZARD IDENTIFICATION

Health hazard (blue): 1

Flammability hazard (red): 1

Instability hazard (yellow): 0

Special hazard (white):

MSDS Effective Date: January 12, 2009

Revision Number: 3

Revision Indicator: This MSDS has been revised as follows:

R2: Content and format have been revised for compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1.

R3: Additional product characteristics, freezing/boiling points, included in Section 9.

Prepared by / position: Amy Dent, Director of Quality & Environmental Management

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