



Product Name: LP-10 Lithium EP Plus Grease

Revision No.: 2

Issue Date: 3-15-2008

Material Safety Data Sheet

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name: LP-10 Lithium EP Plus Grease
(all grades)

Intended Use(s): Semi-solid, general-purpose lubricating grease

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

Company 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: Black semi-solid grease; bland odor.

Health Hazards: WARNING! May cause eye irritation. May cause skin irritation. Injection under the skin by high-pressure equipment may cause serious injury. Most damage occurs within the first few hours; initial symptoms may be minimal. Aspiration hazard if swallowed - can enter lungs and cause damage.

Safety Hazards: WARNING! Slipping hazard if spilled.

Potential Health Hazards: See Section 11 for more information.

Likely Routes of Exposure: Skin, eyes, inhalation.

Inhalation: This material is a solid when stored at room temperature and is not expected to pose an inhalation risk. Heating may generate vapors that may cause respiratory irritation, nausea and headaches.

Ingestion: Swallowing can cause nausea, diarrhea and vomiting. Vomiting may cause aspiration into the lungs with the risk of chemical pneumonitis.

Skin Contact: May cause skin irritation. Repeated or prolonged exposure may cause defatting of the skin, and/or make skin more sensitive to skin sensitizers.

Eye Contact: May cause eye irritation, resulting in redness, burning, swelling and/or blurred vision.

Medical Conditions

Aggravated by Exposure: None known.

Target Organs: None known.

Other Hazards: Injection of grease under the skin may result in serious injury. If left untreated, the affected area is subject to infection, disfigurement, and lack of blood circulation, which could result in permanent tissue damage and/or amputation. When dispensed by high-pressure equipment, this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand. Within 24-48 hours swelling, inflammation, discoloration, fever, throbbing pain and mild central nervous system depression may be experienced. Get immediate medical attention.

Potential Environmental Effects: See Section 12 for more information.

Not determined.

Other Information:

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS
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OSHA Hazardous Components

Component	CAS No.	% by Wt.	Carcinogen
Mineral oils	64742-65-0	70 - 84%	No
	64742-62-7		No
	64742-52-5		No
Lithium 12-hydroxystearate	7620-77-1	1 - 10%	No
Inorganic clay	68911-87-5	1 - 4%	No
MT-10 additive (hydrocarbon mixture)	Proprietary	> 1%	No

Additional Information: The MT-10 Metal Treatment additive (hydrocarbon mixture) is a trade secret of MPC. 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 immediately if irritation persists.
Skin Contact:	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists. Wash clothing and clean shoes before reuse.
Inhalation:	If overcome by inhalation of hot vapors, 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 immediately. Never give anything by mouth to an unconscious person.
Note to Physicians:	None.
Additional Advice:	When dispensed by high-pressure equipment, product can easily penetrate the skin and leave a bloodless puncture wound causing serious. Contact a physician immediately for treatment and/or removal of injected grease.

Section 5: FIRE FIGHTING MEASURES
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Suitable Extinguishing Media:	Use water fog, carbon dioxide, dry chemical, foam, earth or sand.
Unsuitable Extinguishing Media:	Water except as fog and alcohol foam.
Products of Combustion:	Carbon dioxide, carbon monoxide, smoke, irritating vapors, unburned hydrocarbons.
Firefighter Protection:	Water may cause frothing. Wear full protective clothing and self-contained breathing apparatus. Use waterspray to disperse vapors and keep adjacent containers cool.
Additional Advice:	None.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Eliminate all ignition sources. Evacuate personnel to safe area. Use appropriate personal protective equipment (see Section 8). Slipping hazard - 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 non-combustible material (sand, earth or other inert material).

Methods for Clean-Up: Vacuum, scoop or sweep up material. Place waste in a container, seal and dispose of safely.

Other Information: Observe all relevant federal, state and local regulations.

Section 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Do not get into eyes. Do not breath hot vapors or mist. Avoid prolonged contact with skin. If this product is stored or applied in high-pressure systems, such as grease guns or hydraulic lines, there is a potential for accidental injection into the skin and tissues. Grease injected into the skin can cause pain, swelling, irritation, infection and tissue destruction. In the event of an injection injury, get medical attention immediately. Use only with adequate ventilation. Wash hands thoroughly after handling and before eating and drinking. Avoid water contamination and elevated temperatures to avoid product degradation. Keep containers closed when not in use.

Storage: Keep containers closed. Keep containers away from heat, sparks, open flame, and oxidizing materials. Do not store at elevated temperatures or in direct sunlight.

Additional Advice: Product residue remains in empty containers. Observe all label precautions until container is cleaned, reconditioned or destroyed. Residual vapors may explode on ignition. Do NOT puncture, cut, drill, grind or weld on or near empty containers.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Material	OSHA-PEL	ACGIH-TLV
Mineral oil, mist	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Mineral oil, mist		STEL: 10 mg/m ³
Lithium 12-hydroxystearate	None	None

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.

Skin Protection: Use neoprene or nitrile gloves to avoid 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 equipment.

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, 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: Use with adequate ventilation. Personal protective equipment (PPE) should meet recommended national standards.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Smooth/tacky, black semi-solid grease.

Odor: Bland.

Odor Threshold: Not established.

Viscosity: Not established.

pH:	Not established.
Freezing Point:	Not established.
Melting Point:	360 deg. F minimum (182 deg. C)
Boiling Point:	700 deg. F (371 deg. C)
Flash Point:	400 deg. F minimum (204 deg. C) ASTM D92
Flammable Limits:	Upper: Not established. Lower: Not established.
Autoignition Temperature:	Fire point: 450 deg. F (232 deg. C)
Evaporation Rate:	Not established.
Vapor Pressure:	Not established.
Vapor Density:	Not established.
Specific Gravity:	0.89 @ 16 deg. C (water = 1)
Solubility in Water:	Negligible
VOC Content:	Not established.
Other Information:	None.

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Keep away from heat, sparks and flame.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Byproducts:	Carbon dioxide, carbon monoxide, smoke, irritating vapors, and unburned hydrocarbons if combustion is incomplete.
Possibility of Hazardous Reactions:	Not expected to occur.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Oral:	No toxicity data on product. Main component: LD50 > 5000 mg/kg (rat), low toxicity.
Dermal:	No toxicity data on product. Main component: LD50 > 2000 mg/kg (rabbit), low toxicity. Prolonged or repeated skin contact may cause defatting resulting in drying, redness, or cracking (dermatitis).
Inhalation:	This material is a solid when stored at room temperature and is not expected to pose an inhalation risk. Heating may generate vapors that can cause respiratory irritation, nausea and headaches.
Eyes:	May cause eye irritation.
Sensitization:	Not expected to occur.
Other Information:	This information is provided based on available component data.

CHRONIC EFFECTS

Carcinogenicity:	This product contains no carcinogenic substances.
Mutagenicity:	This product contains no mutagenic substances.
Reproductive Effects:	Not determined.
Developmental Effects:	Not determined.
Other Information:	This product has been used for years with no known ill effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Ecotoxicity data is not available for this material. Plants and animals may experience harmful or fatal effects when coated with petroleum products.
Persistence / Degradability:	Not determined.
Bioaccumulation:	Not determined.
Mobility:	Not determined.
Additional Information:	None.

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 uses, transformations, mixtures, contamination and spillage may change its characteristics. Dispose of in accordance with federal, state and local regulations.
- Empty Containers:** Product residue remains in empty containers. Do NOT puncture, cut, drill, grind or weld on or near empty containers. Empty drums should be completely drained or scraped, properly bunged or sealed, and promptly returned to a drum reconditioner or properly disposed.
- Additional Considerations:** 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: Lubricating grease.

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 contains no CERCLA hazardous substances.

SARA 302 Extremely Hazardous Substances (40 CFR 355): This product contains no SARA extremely hazardous substances.

SARA 311/312 Hazardous Chemical Inventory Reporting (40 CFR 370): This product is subject to inventory reporting if present above the minimum TPQ 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 contains no SARA toxic substances.

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

Asia-Pacific: ASIA-PAC

Australia: AICS

Canada: DSL

Europe: EINECS

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: March 15, 2008

Revision Number: 2

Revision Indicator: This MSDS has been revised as follows:

The content and format have been revised for compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1.

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

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