Safety Data Sheet

Issue Date: 14-Nov-2014 **Revision Date:** 16-Sep-2016 **Version** 2

1. IDENTIFICATION

Product Identifier

Product Name Power-Lift Grease PL-10™ (all NLGI grades)

Other means of identification

SDS # MP-008

Recommended use of the chemical and restrictions on use

Recommended Use Semi-solid, multi-purpose, lithium-complex lubricating grease.

Details of the supplier of the safety data sheet

Supplier Address
Muscle Products Corp
752 Kilgore Road
Jackson Center, PA 16133
www.musclelubricants.com

Emergency Telephone Number

Company Phone Number 1-800-227-7049 U.S. & Canada
1-814-786-0166 International

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance cream **Physical state** Semi-solid **Odor** Petroleum

Classification

Acute toxicity - Inhalation (Vapors)	Category 4

Hazards Not Otherwise Classified (HNOC)
May be harmful in contact with skin

Signal Word
Warning

Hazard statements
Harmful if inhaled

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

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

Other hazards
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	20-50
Residual oils (petroleum), solvent refined	64742-01-4	25-50
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	25-50
Proprietary organic compound	Proprietary	5-15
Zinc Oxide	1314-13-2	<5
Antimony diamyldithiocarbamate	15890-25-2	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Immediately call a poison center or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

Most important symptoms and effects

Symptoms Harmful if inhaled. May be harmful in contact with skin. Prolonged or repeated skin contact may cause irritation. Direct eye contact may cause stinging, tearing and redness. When heated, mists of this product may irritate nasal passages. May cause nausea, vomiting, stomach ache, and diarrhea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Halon. Carbon dioxide (CO2). Dry chemical. Foam. Water spray (fog).

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical
Not determined.

Hazardous Combustion Products Fumes and smoke. Irritating vapors. May release toxic oxides of Zinc and Sulfur in a fire. Oxides of carbon. Nitrogen oxides (NOx). Oxides of phosphorus. Hydrogen chloride. Aldehydes.

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. A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Only trained individuals should attempt to clean up spills of this material. Evacuate personnel to safe areas. Remove all sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet. Spills may be slippery. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions

Environmental precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. Avoid release to the environment. Collect spillage. Dispose of contents/container to an approved waste disposal plant.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).
Methods for Clean-Up	Sweep, scoop, or vacuum the discharged material. Seal absorbent material in a closed labeled container and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep containers closed when not in use. Do not eat or drink while handling this material. Do not cut, drill, grind, or weld on or near this container; residual vapors may ignite.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Storage temperature should not exceed + 40°C (104°F) to maintain best product performance. Protect from direct sunlight. Avoid contact with water as it will degrade the performance of the product. Do not store in unlabeled or mislabeled containers. Store away from incompatible materials. Do not reuse containers without proper cleaning or reconditioning. Keep only in the original container at a temperature not exceeding 40°C (104°F). Keep container closed after use.

Incompatible Materials Strong oxidizing agents. Reducing agents. Acids. Strong caustics.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5	TWA: 5 mg/m^3 (oil mist) STEL: 10 mg/m^3 (oil mist)	TWA: 5mg/m^3 (oil mist) STEL: none estab.	TWA: none estab. STEL: none estab.
Zinc Oxide 1314-13-2	STEL: 10 mg/m^3 respirable particulate matter TWA: 2 mg/m^3 respirable particulate matter	TWA: 5 mg/m^3 fume TWA: 15 mg/m^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 5 mg/m^3 fume (vacated) TWA: 10 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction (vacated) STEL: 10 mg/m^3 fume	IDLH: 500 mg/m^3 Ceiling: 15 mg/m^3 dust TWA: 5 mg/m^3 dust and fume STEL: 10 mg/m^3 fume
Antimony diamyldithiocarbamate 15890-25-2	TWA: 0.5 mg/m^3 Sb	TWA: 0.5 mg/m^3 Sb (vacated) TWA: 0.5 mg/m^3 Sb	IDLH: 50 mg/m^3 Sb TWA: 0.5 mg/m^3 Sb

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses as a minimum for protection. Use chemical safety goggles and/or full-face shield where splashing is possible. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Rubber, neoprene, or other impervious gloves are recommended to prevent skin contact. Other skin or body protection is not normally required except in emergency or spill conditions. Protective clothing, shoes or boots should be chemical resistant (eg. neoprene). If handling hot material, use insulated protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Semi-solid		
Appearance	cream	**Odor**	Petroleum
Color	Cream	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	>93 °C / >199 °F	
Flash Point	> 225 °C / > 437 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not established	
Lower Flammability Limit	Not established	
Vapor Pressure	Not determined	
Vapor Density	Not established	
Relative Density	1.02162 g/cm3	@ 20°C (68°F)
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Product is not self-igniting	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
Avoid strong oxidizing conditions. Avoid direct sunlight. Avoid contact with heat, sparks, electric arcs, other hot surfaces and open flames. See Sec. 7 Handling & Storage.

Incompatible Materials
Strong oxidizing agents. Reducing agents. Acids. Strong caustics.

Hazardous Decomposition Products
When heated, produces acrid and toxic smoke and fumes. Irritating vapors. Hydrogen chloride. May release toxic oxides of Zinc and Sulfur in a fire. Oxides of carbon. Oxides of phosphorous. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact May be harmful in contact with skin. Avoid contact with skin.

Inhalation Harmful if inhaled. Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Residual oils (petroleum), solvent refined 64742-01-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Proprietary organic compound	= 26100 mg/kg (Rat) > 21500 µL/kg (Rat)	> 10 mL/kg (Rabbit)	-
Zinc Oxide 1314-13-2	> 5000 mg/kg (Rat)	-	-
Modified vegetable oil	= 40 g/kg (Rat)	> 20 mL/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity This product is not known to contain carcinogenic substances. This product contains mineral oils which are considered to be severely refined and not carcinogenic under IARC. All of the oils in this product contain less than 3% extractables by IP 346.

Chemical Name	ACGIH	IARC	NTP	OSHA
Residual oils (petroleum), solvent refined 64742-01-4	A2	Group 1	Known	X
Proprietary organic compound		Group 2B		X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity

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

ATEmix (oral) 6,558.00 mg/kg
ATEmix (dermal) 3,894.00 mg/kg
ATEmix (inhalation-dust/mist) 62.50 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Residual oils (petroleum), solvent refined 64742-01-4		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Proprietary organic compound		94.5 - 271: 96 h Oncorhynchus mykiss mg/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static 0.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.0109: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	102: 24 h Daphnia magna mg/L EC50
Modified vegetable oil	8: 72 h Desmodesmus subspicatus mg/L EC50	900: 48 h Leuciscus idus mg/L LC50	100: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not readily biodegradable.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Proprietary organic compound	>6

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Zinc Oxide 1314-13-2	Toxic
Antimony diamyldithiocarbamate 15890-25-2	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG

Marine Pollutant Yes

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Residual oils (petroleum), solvent refined	X	X	X		X	Present	X	X
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	X	X	X		X	Present	X	X
Petroleum distillates, solvent dewaxed heavy paraffinic	X	X	X		X	Present	X	X
Proprietary organic compound	X	X	X	Present	X	Present	X	X
Zinc Oxide	X	X	X	Present	X	Present	X	X
Antimony diamyldithiocarbamate	X	X	X	Present	X		X	X
Modified vegetable oil	X	X	X		X	Present	X	X

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*

IECSC *- China Inventory of Existing 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

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).

SARA 311/312 Hazard Categories

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

SARA 313

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 %
Zinc Oxide - 1314-13-2	1314-13-2	<5	1.0
Antimony diamyldithiocarbamate - 15890-25-2	15890-25-2	<5	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Oxide		X		
Antimony diamyldithiocarbamate		X		

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc Oxide 1314-13-2	X	X	X
Antimony diamyldithiocarbamate 15890-25-2	X		X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	1	0	None
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	1	1	0	Not determined

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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