



Safety Data Sheet

Issue Date: 10-Dec-2018

Revision Date: 25-Apr-2023

Version 2

1. IDENTIFICATION

Product identifier

Product Name Penetrating Oil SL-10™

Other means of identification

SDS # MP-014

Recommended use of the chemical and restrictions on use

Recommended Use Penetrating oil; industrial spray lubricant; rust and corrosion inhibitor.

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 1-814-786-0166
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Milky amber liquid

Physical state Liquid

Odor Hydrocarbon Petroleum

Classification

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

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 person to fresh air and keep comfortable for breathing
Call a poison center or doctor/physician if you feel unwell

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	75-85
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	<1

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

Description of first aid measures

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 water and soap. Remove contaminated clothing and shoes. Wash contaminated clothing 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms	Direct eye contact may cause stinging, tearing and redness. Repeated, frequent or prolonged contact with skin may cause defatting of the skin which can lead to irritation, defatting and/or dermatitis. When heated, mists of this product may irritate nasal passages. May cause nausea, vomiting, stomach ache, and diarrhea.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Halon. Carbon dioxide (CO₂). Dry chemical. Foam.

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

Specific Hazards Arising from the Chemical

May decompose if heated above 392° F (200° C) with liberation of hydrogen chloride.

Hazardous combustion products When heated to decomposition, irritating acid fumes may be evolved. Extreme heating may cause fumes of molybdc oxides. Burning may produce oxides of carbon and various organic compounds. 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.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Absorb spill with inert material (e.g. dry sand or earth). 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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Use only outdoors or in a well-ventilated area. 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. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool 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. Shelf life 24 months.

Incompatible Materials Strong oxidizing agents. Reducing agents. Acids. Strong caustics. Can react with alkali metals, alkaline earth metals, iron, zinc and aluminum at high temperatures leading to decomposition.

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.

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.

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.

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.

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	Liquid	Odor	Hydrocarbon Petroleum
Appearance	Milky amber liquid	Odor Threshold	Not determined
Color	Milky amber		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	No data available		
Melting point / freezing point	-36 °C / -33 °F		
Initial boiling point and boiling range	204 °C / 399 °F		
Flash point	142 °C / 288 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	Not established		
Lower flammability or explosive limits	Not established		
Vapor Pressure	Not determined		
Vapor Density	Not established		
Relative Density	0.9328 g/cm ³	25° C (77° F)	
Water Solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		

Autoignition temperature	No data available	
Hyphen	Not determined	
Kinematic viscosity	23-26 cSt @ 40 deg. C	(liquid)
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Other information

VOC Content None

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. Prolonged heating at temperatures above 70° C (158° F) or heating above 200° C (392° F) for short periods of time may result in product decomposition. Petroleum products tend to soften or swell most natural rubbers. See Sec. 7 Handling & Storage.

Incompatible materials

Strong oxidizing agents. Reducing agents. Acids. Strong caustics. Can react with alkali metals, alkaline earth metals, iron, zinc and aluminum at high temperatures leading to decomposition.

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. Calcium oxides. Unidentified organic compounds. Aldehydes. Alkyl Mercaptans, Hydrogen Sulfide.

11. TOXICOLOGICAL INFORMATION

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

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Harmful if inhaled.

Ingestion Do not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

Calcium salts 68783-96-0	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 1.9 mg/L (Rat) 4 h
Proprietary ingredient	= 40 g/kg (Rat)	> 20 mL/kg (Rabbit)	-
Zinc alkyl dithiophosphate 2215-35-2	2000 - 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	> 2 mg/L (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

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
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	A2	Group 1	Known	X
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5	A2	Group 1	Known	X

Numerical measures of toxicity

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

Oral LD50	5,318.30 mg/kg
Dermal LD50	2,127.33 mg/kg
ATEmix (inhalation-dust/mist)	2.32 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		LC50: >5000mg/L (96h, Oncorhynchus mykiss)	EC50: >1000mg/L (48h, Daphnia magna)
Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5		LC50: >5000mg/L (96h, Oncorhynchus mykiss)	EC50: >1000mg/L (48h, Daphnia magna)
Calcium salts 68783-96-0	EC50: >1000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =40mg/L (96h, Pimephales promelas)	EC50: >1000mg/L (48h, Daphnia magna)
Proprietary ingredient	EC50: =8mg/L (72h, Desmodesmus subspicatus)		
Zinc alkyl dithiophosphate 2215-35-2	EC50: 1.0 - 5.0mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >100mg/L (96h, Pimephales promelas) LC50: 25 - 50mg/L (96h, Pimephales promelas)	EC50: 4.0 - 6.0mg/L (48h, Daphnia magna)

Persistence/Degradability

Not readily biodegradable.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

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.

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

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIC
Petroleum distillates, hydrotreated light naphthenic	X	ACTIVE	X	X		X	X	X	X
Water	X	ACTIVE	X	X	X	X	X	X	X
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	X	ACTIVE	X	X		X	X	X	X
Calcium salts	X	ACTIVE	X	X	X	X	X	X	X
Proprietary ingredient	X	ACTIVE	X	X	X	X	X	X	X
Zinc alkyl dithiophosphate	X	ACTIVE	X	X	X	X	X	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 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		X	
Water 7732-18-5			X
Zinc alkyl dithiophosphate 2215-35-2	X		X

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards	Flammability	Instability	Special hazards
	2	1	-	-
<u>HMIS</u>	Health hazards	Flammability	Physical hazards	Personal Protection
	2	1	-	Not determined

Issue Date: 10-Dec-2018
Revision Date: 25-Apr-2023
Revision Note: Regulatory review

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