



# Safety Data Sheet

Issue Date: 5-Sept-2014

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Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Metal Treatment MT-10®

### Other means of identification

**SDS #** MP-001

### Recommended use of the chemical and restrictions on use

**Recommended Use** Anti-friction lubricant additive.  
Not for use as a stand-alone lubricant; for addition to a carrier lubricant.

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

## 2. HAZARDS IDENTIFICATION

**Appearance** Light amber liquid                      **Physical state** Liquid                      **Odor** Light petroleum

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Proprietary organic compound	Proprietary	65-75
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	20-30
Proprietary Ingredient	Proprietary	<2

\*\*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

**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** Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention if irritation develops or

persists.

**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. Call a poison center or doctor/physician if you feel unwell.

**Ingestion**

IF SWALLOWED: call a poison control center or physician immediately. 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.

**Most important symptoms and effects****Symptoms**

Direct eye contact may cause stinging, tearing and redness. Direct contact with skin can cause irritation or 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. Aspiration may occur during swallowing or vomiting and cause lung damage. Long term overexposure may cause liver and kidney damage.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Sand/earth.

**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** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Aldehydes. Ketones. Hydrogen chloride. Fumes and smoke. Irritating vapors.

**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**

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.

**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. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash face, hands and any exposed skin thoroughly after handling. Keep containers closed when not in use.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Storage temperature should not exceed + 40°C (104°F) to maintain best product performance. Protect from direct sunlight. 2-year shelf life.

**Incompatible Materials**

Strong oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. 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**  
**Appearance**  
**Color**

Liquid  
Light amber liquid  
Light amber

**Odor**  
**Odor Threshold**

Light petroleum  
Not determined

**Property**  
**pH**

**Values**  
Not established

**Remarks • Method**

<b>Melting Point/Freezing Point</b>	-18.6 °C / -1.4 °F	D2386
<b>Boiling Point/Boiling Range</b>	>148.9 °C / >300 °F	D-86
<b>Flash Point</b>	128.6 °C / 263.4 °F	D93
<b>Evaporation Rate</b>	Not established	
<b>Flammability (Solid, Gas)</b>	Liquid-not applicable	
<b>Flammability Limits in Air</b>		
<b>Upper Flammability Limits</b>	Not established	
<b>Lower Flammability Limit</b>	Not established	
<b>Vapor Pressure</b>	<0.010 psi	D5191
<b>Vapor Density</b>	Not established	
<b>Relative Density</b>	1.086	@ 60°F D-4052
<b>Water Solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	369 °C / 696 °F	E-659
<b>Decomposition Temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	165.26 cSt @40°C / 12.61 cSt @ 100°C	D-445
<b>Dynamic Viscosity</b>	Not determined	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	
<b><u>Other Information</u></b>		
<b>Density</b>	1.0856 g/ml @15°C	D-4052

## 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 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.

### **Incompatible Materials**

Strong oxidizers.

### **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). When heated, produces acrid and toxic smoke and fumes. Irritating vapors. Hydrocarbons. Hydrogen chloride.

## 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.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary organic compound	> 21500 µL/kg (Rat) = 26100 mg/kg (Rat)	> 10 mL/kg (Rabbit)	-
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m <sup>3</sup> (Rat) 4 h
Proprietary Ingredient	= 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.

### Numerical measures of toxicity

Not determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Proprietary organic compound		0.0109: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 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	102: 24 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Proprietary Ingredient	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 determined.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
Proprietary organic compound	>6

**Other Adverse Effects**

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, an oil layer can 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

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

<b>Note</b>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINC S	ENCS	IECSC	KECL	PICCS	AICS
Proprietary organic compound	X	X	X	Present	X	Present	X	X
Petroleum distillates, hydrotreated light naphthenic	X	X	X		X	Present	X	X
Proprietary Ingredient	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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
Proprietary organic compound		X	
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		X	

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	1	0	None
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal Protection</b>
	1	1	0	Not determined

**Issue Date:** 5-Sept-2014  
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**Revision Note:** New format

**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**