



Safety Data Sheet

Issue Date: 13-Jun-2011

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Version 3

1. IDENTIFICATION

Product identifier

Product Name Metal Treatment MT-10® Transmission

Other means of identification

SDS # MP-001-TRN

Recommended use of the chemical and restrictions on use

Recommended Use Anti-friction lubricant additive for automotive transmissions. 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 INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red 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-%
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

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	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, both acute and delayed

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.
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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

Water spray (fog). Carbon dioxide (CO₂). 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 (CO₂). Aldehydes. Burning produces irritant fumes. Hydrogen chloride. When heated to decomposition, irritating acid fumes may be evolved. Extreme heating may cause fumes of molybdc oxides.

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 containers tightly closed in a dry, cool 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	Liquid	Odor	Light petroleum
Appearance	Red liquid	Odor Threshold	Not determined
Color	Red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not established	
Melting point / freezing point	-18.6 °C / -1.4 °F	
Initial boiling point and boiling range	>148.9 °C / >300 °F	
Flash point	128.6 °C / 263.4 °F	
Evaporation Rate	Not established	
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	<0.010 psi	
Vapor Density	Not established	
Relative Density	1.086	25° C (77° F)
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	369 °C / 696 °F	
Hyphen	Not determined	
Kinematic viscosity	165.26 cSt @40° C / 12.61 cSt @ 100° C	(liquid)
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Other information

Liquid Density 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 (CO₂). 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
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h
Proprietary Ingredient	= 40 g/kg (Rat)	> 20 mL/kg (Rabbit)	-

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

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - 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

Oral LD50	5,204.60 mg/kg
Dermal LD50	2,084.65 mg/kg
ATEmix (inhalation-dust/mist)	5.1 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)
Proprietary Ingredient	EC50: =8mg/L (72h, Desmodesmus subspicatus)		

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Chemical name	Partition coefficient
Proprietary Ingredient	6.2

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

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/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary Organic Compound	X	ACTIVE						X	
Petroleum distillates, hydrotreated light naphthenic	X	ACTIVE	X	X		X	X	X	X
Proprietary Ingredient	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 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 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	

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards	Flammability	Instability	Special hazards
	1	1	0	-
<u>HMIS</u>	Health hazards	Flammability	Physical hazards	Personal Protection
	1	1	0	Not determined

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 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