



Safety Data Sheet

Prepared according to Globally Harmonized System (GHS) & 29 CFR 1910.1200.
United States.

SECTION 1: IDENTIFICATION

Product Name: Wheel Mounting Compound WM-10™
Intended Use(s): Lubricating oil for press fitting / mounting steel railroad wheels to axles. CAUTION: See table 4.2 in MSRPGII for proper mounting pressures.
SDS No.: MP-017
Revision Date: June 10, 2015
Manufacturer: Muscle Products Corp.
752 Kilgore Road
Jackson Center, PA 16133 U.S.A.
www.mpclubricants.com
Company Phone: 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)

SECTION 2: HAZARDS IDENTIFICATION

Classification Skin corrosion / irritation - Category 3 (GHS classification only; not classed according to OSHA)
Sensitization, skin - Category 1B
Serious eye damage / irritation - Category 2 / (GHS 2A)

Label Elements

Symbols:



Signal Word: Warning.
Hazard Statement(s): Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Other Hazards (HNOC): Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

Precautionary Statement(s)

Prevention: Avoid breathing fume / mist / vapors / spray. Wash exposed skin with soap and water thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection / protective gloves.
Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Disposal: Dispose of product and / or container to a licensed waste disposal contractor in accordance with local, regional, national and international regulations.
Additional advice: Read label before use. If medical advice is needed, have container label or SDS on hand.

HMIS III ratings (U.S.)

Health: 2 * **Flammability:** 1 **Physical hazards:** 0 **Personal protection:** None assigned - PPE codes should be determined by the employer, who is familiar with the actual conditions under which the material is used. See Section 8 for more information.

See Section 11 for complete health hazard information

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS No	% by Weight*
Severely hydrotreated mineral oils consisting of one or more of the following: Distillates (petroleum), hydrotreated heavy naphthenic Distillates (petroleum), hydrotreated light naphthenic Lubricating oils, petroleum, hydrotreated spent Residual oils, petroleum, solvent-dewaxed	64742-52-5 64742-53-6 64742-58-1 64742-62-7	65 - 80 %
Petroleum hydrocarbon mixture	Confidential*	25 - 35 %
Calcium sulfonate	61789-86-4	1 - 5 %

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

SECTION 4: FIRST AID MEASURES**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Get medical attention if rapid recovery does not occur.

Skin contact:

Wash exposed skin with plenty of soap and water. Immediately remove contaminated clothing. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing and shoes before reuse. Discard leather articles saturated with material.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes or until chemical is removed. If eye irritation persists: Get medical attention.

Ingestion:

Do NOT induce vomiting. If person is conscious, rinse mouth thoroughly with water. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into lungs. Get medical attention if you feel unwell.

Most important symptoms / effects (acute and delayed):

Skin irritation may include redness, edema, drying and cracking of skin. Repeated, frequent or prolonged skin contact may cause defatting of the skin which can lead to dermatitis.

Eye irritation may include stinging, tearing, redness and blurred vision.

If product is heated or misted, inhalation of vapor or mists may cause irritation of mucous membranes and respiratory tract.

Ingestion may cause abdominal irritation, nausea, vomiting and diarrhea.

Indication of immediate medical attention or special treatment, if necessary:

If exposed or concerned: Get medical attention.

ADVICE TO PHYSICIANS: Treat symptomatically and supportively.

Additional advice / information:

None known.

See Section 11 for complete health hazard information.

SECTION 5: FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Carbon dioxide, foam, dry chemical. Water spray can be used to cool containers exposed to fire.

Do NOT use direct water jet or high-pressure stream.

Hazardous combustion products:

Smoke, irritating fumes and vapors, unidentified organic compounds, hydrogen chloride, oxides of carbon, calcium, sulfur and nitrogen, and other toxic fumes.

Protection for firefighters:

As in any fire, wear self-contained breathing apparatus operated in positive pressure mode and full protective gear. Water or foam may cause frothing. Avoid water stream as it may scatter and spread fire.

Additional advice / information:

Take no action involving personal risk or without suitable training. Do NOT release chemically contaminated water into drains, soil or surface water.

NFPA hazard identification (U.S.):

Health: 2

Flammability: 1

Instability: 0

Special hazards: ---

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Evacuate personnel to safe area. Keep unnecessary personnel away. Stop leak if without risk. Eliminate all ignition sources if without risk. Avoid inhalation of vapors or mist. Avoid contact with skin, eyes and clothing - do not touch or walk through spilled material. Floors may be slippery. Wear protective clothing / equipment (see Section 8). Prevent entry into basements or confined areas. Ventilate area if spilled in a confined space or other poorly ventilated area.

Environmental precautions:

Prevent from entering soil, ditches, sewers, waterways and groundwater. Do NOT flush into surface water, sanitary sewer or ground water systems.

Methods and materials for containment and clean-up:

Contain spilled material. Absorb with a noncombustible material (i.e. vermiculite, sand or earth). Sweep, scoop, or vacuum the discharged material / spent absorbent. Seal waste absorbent material in a labeled container for later disposal.

LARGE SPILLS: Stop material flow if without risk. Approach release from upwind. Dike area far ahead of spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, or other absorbent material and shoveled into containers. Do NOT use combustible materials, such as saw dust. Seal and label containers for later disposal.

Additional advice / information:

None.

See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling:**

Avoid contact with eyes, skin, clothing and shoes. Avoid repeated or prolonged skin contact. Wear protective gloves and any other PPE deemed suitable (see Section 8). Avoid breathing fume, mist, vapors or spray. Use adequate ventilation and / or engineering controls (see Section 8). Keep away from ignition sources. When handling, do NOT eat, drink or smoke. Do NOT ingest product. Wash face, hands and any other exposed skin thoroughly with soap and water after handling. Contaminated work clothing must not be allowed out of the workplace. Launder contaminated clothing and shoes before reuse. Keep containers closed and upright when not in use. Do NOT reuse empty containers without cleaning or reconditioning. Empty container contains product residue which may exhibit hazards of the product. Avoid water contamination, incompatible conditions (see Section 10) and extreme temperatures to prevent product degradation. Avoid release to the environment.

Conditions for safe storage, including incompatibilities:

Keep in original container and tightly closed and sealed until ready for use. Store protected from sunlight in a cool, dry and well-ventilated place. Keep away from incompatible materials (see Section 10) and sources of ignition. Take precautions to avoid release to the environment. Do NOT store in unlabeled or mislabeled containers. Maximum storage temperature for product preservation: 40°C (104°F). Storage life: 2 years if stored according to advice given.

Additional advice / information:

Empty containers contain material residue. do NOT cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational exposure limits:**

Component	OSHA PEL	ACGIH TLV	NIOSH
Severely hydrotreated mineral oils: Oil mist, Mineral (if generated) 64742-52-5; 64742-53-6; 64742-58-1; 64742-62-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Petroleum hydrocarbon mixture	Not available	Not available	Not available
Calcium sulfonate 61789-86-4	Not available	Not available	Not available

Engineering controls:

General ventilation is normally adequate. If use generates mist or vapor, local exhaust ventilation is recommended. Additional ventilation or exhaust may be required to maintain air concentrations below exposure limits. Thermal processing operations should be ventilated to prevent exposure to vapors.

Personal protective equipment

Eye / face protection:

Wear safety glasses with side shields. If potential for splash or mist exists, wear chemical splash goggles or face shield. Wear goggles, face shield or other full-face protection during thermal processing if contact with HOT material is possible.

Skin / body protection:

Use nitrile or neoprene gloves. Long-sleeve shirt recommended. Wear apron or coverall if there is a risk of exposure to splashes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. If handling HOT product, ensure gloves, boots and clothing are heat resistant and insulated.

Respiratory protection:

Not usually required under normal conditions of use. If airborne concentrations are above exposure limits, use an approved respirator. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.

Work and hygiene practices:

Safety showers and eye wash stations should be provided close to work areas with splash hazards. Launder contaminated clothing and shoes before reuse. Follow general hygiene considerations recognized as common good work practices. Wash face, hands and any other exposed skin thoroughly after handling. Do NOT eat, drink or smoke when handling product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark blue liquid.
Odor:	Mild petroleum.
Odor threshold:	Not determined.
pH:	Not determined.
Melting / freezing point:	POUR POINT: < - 16.6°F (< - 27.0°C) ASTM D97
Initial boiling point / range:	> 450°F (232°C) ASTM D1120
Flash point:	317.3°F (158.5°C) ASTM D93
Evaporation rate:	Not determined.
Flammability / Explosive Limits:	
Upper: Not determined.	Lower: Not determined.
Vapor pressure:	Not established.
Vapor density:	Not determined.
Specific gravity:	0.9516 g/cm ³ @ 60°F ASTM D1298
Relative density:	0.9509 g/cm ³ @ 15°C ASTM D1298 ~ 7.9356 lbs per US gallon
Solubility(ies):	Insoluble (water).
Partition coefficient: n-Octanol/water	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	26.12 cSt @ 40°C / 4.52 cSt @ 100°C ASTM D445

The above properties are typical values and do NOT constitute a product specification.

SECTION 10: STABILITY AND REACTIVITY

Stability:

Stable under normal handling and storage conditions (see Section 7).

Possibility of hazardous reactions:

None known under normal conditions of use. As with all petroleum chemicals, product tends to soften or swell most natural rubbers. Can react with iron, zinc and aluminum at high temperatures leading to product decomposition.

Conditions to avoid:

Direct sunlight, high temperatures, excessive heat and sources of ignition. Contact with incompatible materials.

Incompatible materials:

Strong oxidizing agents. Reducing agents. Acids.

Hazardous decomposition products:

Smoke, irritating vapors, carbon monoxide, carbon dioxide, aldehydes, unidentified organic compounds and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans may also be released. Under combustion conditions, oxides of phosphorus, sulfur, calcium and zinc may form. Prolonged heating at temperatures in excess of 70°C (158°F), OR heating above 200°C (392°F) for short periods of time, will result in product decomposition and possible liberation of hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on toxicological effects****Likely routes of exposure:**

Ingestion:	Not an expected route of exposure in the workplace.
Inhalation:	No data available. When heated, sprayed or misted, inhalation of vapor or mists may cause irritation of mucous membranes and respiratory tract.
Skin contact:	Causes mild skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation.

Acute exposure

Oral toxicity:	No data on product. ATEmix: LD50 > 10500 mg/kg, rat.
Dermal toxicity:	No data on product. ATEmix: LD50 > 5000 mg/kg, rabbit.
Inhalation toxicity:	No data available to indicate product may be a toxic inhalation hazard.
Skin corrosion / irritation:	No data on product. Causes mild skin irritation based on component data.
Eye damage / irritation:	No data on product. Causes serious eye irritation based on component data.
Sensitization – skin / respiratory:	May cause skin sensitization. Not expected to be a respiratory sensitizer. Based on component data.

Chronic exposure

Germ cell mutagenicity:	No data available to indicate product or its components present at ≥ 0.1% are mutagenic.
Carcinogenicity:	This product contains severely hydrotreated mineral oils which have not been found to be carcinogenic or potential carcinogens. The oils in this product contain < 3.0% DMSO extractable compounds by IP 346.
Reproductive toxicity:	No data available to indicate product or its components present at ≥ 0.1% cause reproductive toxicity. IARC Monographs: No components present at ≥ 0.1% identified. ACGIH: No components present at ≥ 0.1% identified. U.S. NTP: No components present at ≥ 0.1% identified. U.S. OSHA (29 CFR 1910.100-1051): No components present at ≥ 0.1% identified.

Specific target organ toxicity (STOT)

Single exposure:	None known.
Repeated / prolonged exposure:	Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Repeated exposure to high levels may produce liver or kidney damage.

Aspiration hazard

Not classed.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity:****Fish:**

Severely hydrotreated mineral oils: 96 Hr LC50 > 5,000 mg/L *Oncorhynchus mykiss*.
Petroleum hydrocarbon mixture: 96 Hr LC50 > 300 mg/L Rainbow trout.
Calcium sulfonate: LC50 > 100 mg/L, 4 d, Rainbow Trout. NOEC > 100 mg/L, 4 d, Rainbow Trout. LC50 > 10,000 mg/L, 4 d, Sheepshead Minnow.

Aquatic Invertebrates:

Severely hydrotreated mineral oils: 48 Hr EC50 > 1000 mg/L, *Daphnia magna* (water flea).
Petroleum hydrocarbon mixture: No data.
Calcium sulfonate: EC50 > 1,000 mg/L, 2 d, *Daphnia magna* (water flea).

Aquatic Plants:

Severely hydrotreated mineral oils: 96 Hr Ir L50 > 1000 mg/L *Scenedesmus Subspicatus*.

Petroleum hydrocarbon mixture: No data.
Calcium sulfonate: EC50 > 100 mg/L, 3d, Selenastrum capricomutum (green algae).

Microorganisms:

Severely hydrotreated mineral oils: No data.
Petroleum hydrocarbon mixture: No data.
Calcium sulfonate: EC50 > 10,000 mg/L, 0.1 d, Sludge

Other:

None.

Persistence / degradability:

No data on product. Not readily biodegradable based on component data.

Bioaccumulative potential:

Not determined.

Mobility:

No data on product. Essentially insoluble to water based on component data.

Ozone depletion:

No known ingredients present at $\geq 0.1\%$ are identified as ozone-depleting substances.

Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal:

Avoid release to the environment. Do NOT dispose of to any sewer, ground or body of water. Dispose to a licensed waste disposal contractor in accordance with applicable local, regional, national or international regulations.

Empty containers:

Empty containers may contain harmful residue or vapors. Labels should not be removed from containers until they have been cleaned. Dispose of or recycle packaging in accordance with applicable local, regional, national or international regulations.

Additional advice / information:

It is the responsibility of the user to determine, at the time of disposal, whether product meets the RCRA criteria for hazardous waste.

SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation (U.S. DOT):

UN/ID Number:	Not regulated.*
Proper Shipping Name:	Lubricant oil.
Hazard Class or Division:	Not applicable.
Packing Group:	Not applicable.
Label Code(s):	None.
Quantity Limitations:	Passenger aircraft / rail: Not applicable. Cargo aircraft only: Not applicable.
Description:	Not applicable.
NAERG Number:	171

UN Model Regulations (annexes to the Recommendations on the Transport of Dangerous Goods):

Not determined.

IMDG Code:

Product does not meet the criteria for marine pollutant classification. See U.S. DOT.

IBC Code / Annex II of MARPOL 73/78:

Not determined.

Additional advice / information: * Review classification requirements if shipping material at elevated temperatures.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All components are on the inventory or exempt from listing.

SARA Title III:

Sections 311/312 Hazard Classes:

Acute health hazard:	Yes
Chronic health hazard:	Yes
Fire hazard:	Yes
Reactive hazard:	No
Release of pressure hazard:	No

Section 313 Form R reporting:

This product does not contain $\geq 1.0\%$ ($\geq 0.1\%$ for carcinogens) of any chemical substances listed by Section 313 of SARA Title III and 40 CFR 372.

Section 302 Extremely Hazardous Substances (EHS) / CERCLA Hazardous Substances:

SARA EHS: This product does not contain $\geq 1.0\%$ ($\geq 0.1\%$ for carcinogens) of any chemical substances on the list of SARA Extremely Hazardous Substances.

CERCLA: Product may contain the following hazardous substance(s):

Xylene, $\geq 0.02\%$ bw concentration, RQ 100 lbs (45.4 kg).

U.S. State Regulations:

- California Prop. 65: Product does not intentionally contain any Proposition 65 chemicals. NOTE: We do not routinely analyze products for impurities.
- Massachusetts RTK: CASRN 64742-53-6 Mineral oil, petroleum distillates, hydrotreated light naphthenic.
- New Jersey RTK: No CASRNs listed.
- Pennsylvania RTK: No CASRNs listed
- Other: None.

International Inventories:

Components of this product are compliant with, or listed on, one or more of the following: Australia (AICS), Canada (DSL/NDSL), China (IECSC), EU (REACH), Japan (ENCS), Korea (ECL), Mexico (INSQ), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (TCSCA).

EU: To obtain REACH compliance status, please email us at sales@mpclubricants.com.

Other regulatory information: None.

SECTION 16: OTHER INFORMATION

SDS History

Issue date: April 6, 1998
Revision date: June 10, 2015
Revision number: 04
Revision indicator: This SDS has been revised as follows:
Prepared for compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and the revised 29 CFR 1910.1200 (U.S. Hazard Communication Standard).
Prepared by: Technical Dept.

Acronym Legend:

ACGIH	American Conference of Governmental Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level
BCF	Bioconcentration Factor	NFPA	National Fire Protection Association
CAS	Chemical Abstracts Service	NIOSH	National Institute for Occupational Safety & Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (Superfund)	NOAEL	No Observed Adverse Effect Level
EC₅₀	Effective concentration to 50% of test organisms	NTP	National Toxicology Program
EPCRA	Emergency Planning and Community Right-to-Know	OSHA	Occupational Health and Safety Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals	PEL	Permissible Exposure Limit
HMIS	Hazardous Material Information System	RQ	Reportable Quantity
IARC	International Agency for Research on Cancer	SARA	U.S. EPA Superfund Amendments and Reauthorization Act
IBC	Intermediate Bulk Container	STEL	Short-Term Exposure Limit
IMDG	International Maritime Dangerous Goods Code	TLV	Threshold Limit Value
LC₅₀	Lethal concentration to 50% of test organisms	TPQ	Threshold Planning Quantity
LD₅₀	Lethal dose to 50% of test organisms	TWA	Time-Weighted Average
		VOC	Volatile Organic Compound

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