Safety Data Sheet

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

SECTION 1: IDENTIFICATION

Product Name (Identifier): **Diesel High Performance DHP-10™**

Intended Use(s) / Restrictions: Diesel fuel additive

SDS No.: MP-005

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: HAZARD(S) IDENTIFICATION

Classification

Flammable Liquid - Category 2
Acute toxicity, Dermal - Category 5
Acute toxicity, Inhalation - Category 4
Skin corrosion / irritation - Category 3
Serious eye damage / irritation - Category 2
Aspiration hazard - Category 1
Aquatic toxicity, Acute - Category 3
Aquatic toxicity, Chronic - Category 3

Label Elements

Hazard Symbol(s):

Signal Word: Danger

Hazard Statement(s):
Highly flammable liquid and vapour.
May be harmful in contact with skin.
Harmful if inhaled.
Causes mild skin irritation.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

Other Hazards (HNOC):
Risk of explosion if heated under confinement.
Repeated ingestion and inhalation of high levels may cause damage to liver and kidneys.
Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

Precautionary Statement(s):
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical / ventilating / lighting equipment. Use non-sparking tools. Take action to prevent static discharges.

Wear protective gloves (chemical resistant, i.e. nitrile) and eye protection. Avoid breathing fume / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wash thoroughly with soap and water after handling.

Avoid release to the environment.

In case of fire: Use dry chemical, carbon dioxide (CO2), water fog or alcohol-resistant foam.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

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.

IF SWALLOWED: Immediately get medical attention. DO NOT INDUCE VOMITING.

Storage: Store locked up in a well-ventilated place. Keep cool.

Disposal: Dispose of product / empty container to a licensed waste disposal contractor in accordance with local, regional, national and international regulations.

HMIS hazard rating (U.S.)

Health: 2 * Flammability: 3 Physical hazards: 3 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*
Petroleum distillates	8052-41-3	35 - 44.9
2-Ethylhexyl nitrate	27247-96-7	15 - 19.9
Isopropyl alcohol	67-63-0	10 - 14.9
Distillate fuel oil, middle	8008-20-6	10 - 14.9
Petroleum hydrocarbon waxes	Confidential mixture*	5 - 9.9
Lubricity diesel fuel additive package	Confidential mixture*	< 5
Severely hydrotreated mineral oils consisting of one or more of the following: Hydrotreated Heavy Naphthenic Distillates (petroleum oil) Hydrotreated naphthenic mineral oil	 64742-52-5 64742-53-6	 < 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 symptoms occur. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.

Skin contact:

Take off immediately all contaminated clothing. Rinse skin with water (or shower). Thoroughly wash contaminated area of the body with soap and water. If skin irritation occurs: Get medical attention. Launder contaminated clothing and shoes before reuse.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 20 minutes. If eye irritation persists: Get medical attention.

Ingestion:

DO NOT INDUCE VOMITING. Get medical attention immediately. Aspiration of material due to vomiting can cause chemical pneumonitis, which can be fatal. If vomiting occurs naturally, the victim should lean forward and keep head below hips to reduce the risk of aspiration.

Most important symptoms/effects (acute and delayed):

Inhalation of vapors, mists or fumes may irritate eyes, nose, throat and lungs. Inhalation of high concentrations may cause headaches, dizziness, nausea, drowsiness or stupor.

Skin contact may cause irritation or redness. Prolonged or repeated contact may cause defatting of the skin, which can lead to irritation and/or dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.

Eye contact may cause pain, stinging, tearing, redness, and blurred vision.

Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, possible liver and kidney injury and chemical pneumonitis (aspiration of liquid).

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

Advice to PHYSICIANS: Treat symptomatically.

Overexposure may cause central nervous system depression.

Additional advice / information:

None.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, carbon dioxide (CO2), water fog or alcohol-resistant foam. Do NOT use direct water jet or stream.

Hazardous combustion products:

Irritating fumes, vapors, carbon dioxide, carbon monoxide, and oxides of nitrogen.

Protection for firefighters:

As in any fire, firefighting personnel should wear full protective gear and self-contained breathing apparatus (SCBA) in positive pressure mode.

This product is a flammable static accumulating liquid. Sparks may ignite liquid and vapor may cause flash fire. Static electricity accumulation may be significantly increased by the presence of water or other contaminants. Use spark-proof tools and explosion-proof equipment. Material may explode under confinement and high temperatures. The nitrate contained in this product may undergo a self-accelerating exothermic reaction if heated above 212°F (100°C). Closed containers may explode when exposed to extreme heat.

Additional advice / information:

Move containers from fire area if without risk. Keep tanks cool by spraying with water. Do NOT release chemically contaminated water into drains, soil or surface water. Take no action involving personal risk or without suitable training.

NFPA hazard identification (U.S.):

Health: 2 Flammability: 3 Instability: 3 Special hazards: ---

SECTION 6: ACCIDENTAL RELEASE MEAUSURES

Personal precautions, protective equipment & emergency procedures:

Evacuate unnecessary personnel to safe area. Stop leak if without risk. Eliminate all ignition sources if safe to do so. No smoking, flares, sparks or flames in immediate area. All equipment used when handling product must be grounded. Use non-sparking tools. Avoid breathing vapor or mist. Provide adequate ventilation. Avoid contact with skin, eyes and clothing - do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Wear protective clothing / equipment (see Section 8).

Environmental precautions:

Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods and materials for containment and clean-up:

Dike area far ahead of spill for later disposal. Use a non-combustible material (i.e. vermiculite, sand or earth) to soak up the product. Use non-sparking tools to collect absorbed material. Seal absorbent material in a labeled container for disposal.

Additional advice / information:

NAERG 2012: 128

See Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. DO NOT HEAT. Product can accumulate static charge when handled. Take action to prevent static discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment. Use explosion-proof electrical, ventilating, lighting equipment and non-sparking tools. Avoid splash filling. Do NOT use compressed air for filling, discharging or handling operations.

Avoid breathing fumes, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid eye and skin contact. Do not ingest product. Use personal protection (see Section 8). Wash face, hands and exposed skin thoroughly after handling and before eating, drinking or smoking. Launder contaminated clothing and shoes before reuse.

Keep containers closed and upright when not in use.

Use appropriate containment to avoid release to the environment.

Conditions for safe storage, including incompatibilities:

Store locked up in a well-ventilated place in accordance with local regulations. Keep container tightly closed and sealed until ready for use. Store in the original container protected from direct sunlight in a cool, dry area, away from incompatible materials (see Section 10). Do NOT store in unlabeled containers.

Store and use away from heat, sparks, open flame and other ignition sources. Take precautionary measures against static discharge. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment. Use appropriate containment to avoid release to the environment. Check containers regularly for leaks.

Maximum storage temperature: 40°C (104°F). Storage life - 2 years if stored according to advice given.

Additional advice / information:

Do NOT reuse empty container. Empty containers retain product residue. Do NOT cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other ignition sources.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

Ingredient name	OSHA PEL	ACGIH TLV	Other
Petroleum distillates CASRN: 8052-41-3	TWA: 500 ppm TWA: 2900 mg/m3	TWA: 100 ppm	NIOSH 350 mg/m3 (TWA) 1800 mg/m3 (c) 15 min
2-Ethylhexyl nitrate CASRN: 27247-96-7	Not established	Not established	1 ppm (manufacturer recommended)
Isopropyl alcohol CASRN: 67-63-0	TWA: 400 ppm STEL: 500 ppm TWA: 980 mg/m3 STEL 1,225 mg/m3	TWA: 200 ppm STEL: 400 ppm	None
Distillate fuel oil, middle CASRN: 8008-20-6	Not established	TWA: 200 mg/m3	None
Oil mist, refined mineral (if generated) CASRN: 64742-53-6; 64742-52-5	TWA: 5 mg/m3	TWA: 5 mg/m3 STEL: 10 mg/m3	NIOSH TLV 5 mg/m3 (TWA) 10 mg/m3 (STEL)

(s) = skin **(c)** = ceiling exposure

Engineering controls:

General ventilation is usually adequate under normal conditions of use. This product is a static accumulating liquid. Ground/bond container and equipment. If use generates a mist or vapor, local exhaust ventilation is recommended. Use process enclosures, explosion-proof ventilation or other engineering controls to maintain airborne concentrations below exposure limits.

Personal protective equipment

Eye / face protection:

Safety glasses with side shields. Use chemical safety goggles and/or full-face shield where splashing is possible.

Skin / body protection:

Nitrile or neoprene gloves. Long sleeve shirt recommended. Wear apron or coverall if there is a risk of exposure to splashes.

Respiratory protection:

Not usually needed under normal conditions of use. If a risk assessment indicates protection is necessary, use respirator with a combination organic vapor and high efficiency filter cartridge. Use self-contained breathing apparatus for entry into confined space, other poorly ventilated areas and large spill clean-up sites.

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 exposed skin thoroughly after handling. Do not eat, drink or smoke when using product. Keep away from food, drink and animal feed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber liquid
Odor:	Strong petroleum
Odor threshold:	Not determined
pH:	Not determined

Melting / freezing point:	Not determined.
Initial boiling point / range:	82.2°C (179.9°F) D-86
Flash point:	~ 22.2°C (72°F) closed cup
Evaporation rate:	Not determined
Flammability / Explosive Limits:	Flammable:
Upper: 2	**Lower:** 12
Vapor pressure:	0.58 psi @ 20°C D-6378
Vapor density:	Not determined
Specific gravity:	Not determined
Relative density:	0.8387 g/ml @ 15.5°C D-4052
Solubility(ies):	Partially soluble to water; % not determined
Partition coefficient: n-Octanol/water	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	1.47 cSt @ 40°C D-445

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

SECTION 10: STABILITY AND REACTIVITY

Stability / Reactivity:

Stable under normal conditions of use. If heated, product's static accumulation will rise and could cause flash fire. Heating material under confinement may cause an explosion.

Possibility of hazardous reactions:

None known under normal conditions of use.

Conditions to avoid:

High temperatures, sparks, flames, and other ignition sources.

Incompatible materials:

Strong acids. Oxidizing materials. Strong alkalis. Strong reducing agents. Copper and copper alloys. Nitriles. Amines. Phosphorous. Water reactive substances. Can react with iron, zinc and aluminum at high temperatures leading to product decomposition.

Hazardous decomposition products:

Smoke, irritating vapors, carbon dioxide, carbon monoxide, aldehydes and other products of incomplete combustion. Nitrogen oxides, hydrocarbons and other organic compounds will form when material undergoes combustion or thermal or oxidative degradation.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Likely routes of exposure: Skin contact, eye contact, inhalation.

Acute exposure

Oral toxicity:	No data on product. LD50 rats > 7000 mg/kg based on component data. Swallowing may cause nausea, vomiting, gastrointestinal tract irritation, and CNS depression. Ingestion of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms may include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness.
Dermal toxicity:	May be harmful in contact with skin. No data on product. LD50 rabbits > 2785 mg/kg based on component data. Absorption of 2-ethylhexyl nitrate through the skin may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms may include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness.
Inhalation toxicity:	Harmful if inhaled. No data on product. Elevated temperatures or mechanical action may form vapors, mist or fumes which may irritate eyes, nose, throat and lungs. Inhalation of high concentration may cause CNS depression resulting in headaches, dizziness, nausea, weakness, drowsiness and stupor. Inhalation of 2-ethylhexyl nitrate may cause vasodilation resulting in

	reduced blood pressure and other cardiovascular effects. Symptoms may include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness. Based on component data.
Skin corrosion / irritation:	Causes mild skin irritation. Based on component data. Symptoms may include irritation or redness.
Eye damage / irritation:	Causes serious eye irritation. Based on component data. Symptoms may include pain, stinging, tearing, redness and blurred vision.
Sensitization – skin / respiratory:	No data available to indicate product may be a skin or respiratory sensitizer.

Chronic exposure

Germ cell mutagenicity:	No data available to indicate product or its components present at 0.1% or more are mutagenic.
Carcinogenicity:	Severely hydrotreated naphthenic petroleum oils have not been found to be carinogenic or potential carcinogens. The oils in this product contain < 3.0% DMSO extractable compounds by IP 346. The distillates in this product are Pennsylvania grade middle distillate materials and not listed as carcinogens by IARC, NTP or OSHA. Based on component data.
Reproductive toxicity:	No data available to indicate product or its components present at 0.1% or greater are reproductive toxins.

Specific target organ toxicity (STOT)

Single exposure:	None known.
Repeated exposure:	No data on product. Repeated or prolonged skin contact may cause defatting of the skin, which can lead to irritation and/or dermatitis. Repeated ingestion or inhalation at high levels may produce liver or kidney damage. Based on component data.

Aspiration hazard — Aspiration of this product due to vomiting after ingestion can cause chemical pneumonitis, which can be fatal.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

No data on product. Harmful to aquatic life with long lasting effects based on component data.

Persistence / degradability:

No data on product. > 15% of components show limited biodegradation.

Bioaccumulative potential:

No data on product. > 35% of components indicate a low potential for bioaccumulation.

Mobility in soil:

Not determined.

Ozone depletion:

No known ingredients present at 0.1% or greater 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, on the ground, or into any body of water. Dispose of to a licensed waste disposal contractor in accordance with local, regional, national or international regulations.

Empty containers:

Empty containers may contain harmful residue or vapors. Labels should not be removed from containers unless they have been thoroughly cleaned. Dispose of or recycle packaging in accordance with 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. Dept. of Transportation (DOT):

	Non-Bulk	**Bulk** (> 119 gallons)
UN Number	UN1993	UN1993
Proper Shipping Name	Flammable liquid, n.o.s. (isopropanol)	Flammable liquid, n.o.s. (isopropanol)
Hazard Class	3	3
Packing Group	II	II
Special provisions	Not applicable	IB2, T7, TP1, TP8, TP28
Packaging exceptions	173.150; 173.202	173.242
NAERG number	128	128
Placard advisory	Not required *	FLAMMABLE
Label(s) required	FLAMMABLE	FLAMMABLE
Quantity Limitations:		
Passenger aircraft/rail	5 L	Not permitted (exceeds quantity limitations).
Cargo aircraft only	60 L	Not permitted (exceeds quantity limitations).

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

Not determined.

IMDG Code:

UN1993 Flammable liquid, n.o.s. (isopropanol), 3, II, Marine pollutant (2-ethylhexyl nitrate)

Additional placard advisory may be required: CLASS 9

IBC Code / Annex II of MARPOL 73/78:

Not determined.

Additional advice / information:

* Placard advisory required if aggregate gross weight exceeds 1,000 pounds.

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:	Possibly
Release of pressure hazard:	No

Section 313 Form R reporting:

1,2,4 Trimethylbenzene, CASRN 95-63-6, 1.1% bw concentration

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

This product does not contain greater than 1.0% (0.1% for carcinogenic substances) of any chemical substances listed under SARA Section 302.

U.S. State Regulations:

California: Product does not intentionally contain any California Proposition 65 chemicals. Additionally, we do not routinely analyze products for impurities which may be such chemicals.

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), Japan (ENCS, METI), South Korea (KECL), New Zealand (NZIoC), Philippines (PICCS), Switzerland, Taiwan.

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:	25 July 2014
Revision date:	25 July 2014
Revision number:	0
Revision indicator:	This SDS has been revised as follows:
	New release.
Prepared by:	Technical Dept.

Acronym Legend:

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

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