

Safety Data Sheet

Issue Date: 01-Feb-2018 Revision Date: 18-Dec-2019 Version 2

1. IDENTIFICATION

Product identifier

Product Name Hybrid Engine Treatment™

Other means of identification

SDS # MP-002.HE

Recommended use of the chemical and restrictions on use

Recommended Use Anti-friction engine oil additive.

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 Brown liquid Physical state Liquid Odor Mild petroleum

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Aspiration toxicity	Category 1

Signal Word Danger

Hazard statements

Harmful if inhaled

May be fatal if swallowed and enters airways



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 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Petroleum distillates, hydrotreated middle	64742-46-7	70-80
Sodium dodecyl benzene sulphonate	25155-30-0	1-10
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	1-10
2, 6-di-tert-butyl-4-methylphenol	128-37-0	<1
Triphenyl phosphite	101-02-0	<1
Severely Hydrotreated Heavy Naphthenic	64742-52-5	<1
Petroleum Oil		

^{**}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 cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Wash with plenty of soap and water. Take off contaminated clothing and wash it before

reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

poison center or doctor/physician if you feel unwell.

Ingestion Immediately call a poison center or doctor/physician. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms May be harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled. May

be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO2). Foam. Dry chemical. Water can be used to cool containers exposed to fire.

Unsuitable Extinguishing Media Do not use a water jet or high-pressure stream.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous combustion products Smoke, irritating fumes and vapors, unidentified organic compounds, aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides and oxides of carbon and sulfur. Under combustion conditions, oxides of phosphorus, calcium, sodium sulfur and zinc will form.

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. Avoid water stream or molten burning material as it may scatter and spread the fire. Take no action involving personal risk or without suitable training. Do not release chemically contaminated water into drains, soil or surface water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsEvacuate personnel to safe areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin, eyes or clothing. Use personal

protection recommended in Section 8. Ensure adequate ventilation, especially in confined

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areas.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk.

Methods for Clean-Up Contain spilled material. Absorb spill with inert material (i.e. dry sand or earth). Sweep,

scoop or vacuum the discharged material. Seal absorbent material in a closed labeled container for disposal. Large spills: Stop spill and dike area 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 containers for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing. Use adequate ventilation. Do not eat, drink or smoke when using this product. Do NOT take internally. Wash face, hands and any exposed skin

thoroughly after handling. Launder work clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store away

from heat, sparks, flame. Do not reuse containers without proper cleaning or reconditioning. Empty container contains product residue which may exhibit hazards of the product. Store in a closed container away from incompatible materials. Do not store in unlabeled or mislabeled containers. Keep away from water and moisture. Storage temperature should

not exceed 40°C (104°F) to maintain best product performance. 2-year shelf life.

Incompatible Materials Oxidizing agents. Reducing agent. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2, 6-di-tert-butyl-4-methylphenol	TWA: 2 mg/m ³ inhalable fraction	(vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³
128-37-0	and vapor		_
Severely Hydrotreated Heavy Naphthenic	TWA: 5 mg/m ³ (oil mist)	TWA: 5mg/m ³ (oil mist)	TWA: none estab.
Petroleum Oil	STEL: 10 mg/m ³ (oil mist)	STEL: none estab.	STEL: none estab.
64742-52-5			

Appropriate engineering controls

Engineering Controls 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 control fumes given off during

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processing. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Skin and Body Protection Use nitrile or neoprene gloves. Wear coveralls, apron and /or boots as necessary to

minimize contact. Do not wear rings, watched 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 necessary under conditions of normal use. If product is heated or misted, use

respirator with a combination organic vapor and high efficiency filter cartridge if

recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for

vour specific use of this material.

General Hygiene Considerations Launder contaminated clothing before reuse. Discard leather articles saturated with

product. Wash face, hands and any exposed skin thoroughly after handling. Do not eat,

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D-86

D-93

drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Brown liquid Odor Mild petroleum Color Brown **Odor Threshold** Not determined

Property Property Values Remarks • Method

Not determined Hq

Melting point / freezing point -22 °C / -7.6 °F Boiling point / boiling range 95 °C / 203 °F Flash point 130 °C / 266 °F **Evaporation Rate** Not determined

Flammability (Solid, Gas) Liquid-Not applicable Flammability Limit in Air

Upper flammability or explosive

Not determined

limits Lower flammability or explosive Not determined

limits

Vapor Pressure 4.0 mm Hg @ 25°C (77°F)

Vapor Density Not determined

Relative Density0.9130g/ml @ 15.5°C D1298PropertyValuesRemarks • Method

Water Solubility
Solubility in other solvents
Partition Coefficient
Autoignition temperature
Decomposition temperature
Not determined
268 °C / 514.4 °F
Not determined

Kinematic viscosity 14.80-20.5 cSt @ 40°C (104°F)

Dynamic ViscosityNot determinedExplosive PropertiesNot determinedOxidizing PropertiesNot determined

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

Heat, flames and sparks. Incompatible Materials.

Incompatible materials

Oxidizing agents. Reducing agent. Acids.

Hazardous decomposition products

Smoke, irritating vapors, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans may also be release. Under combustion conditions, oxides of phosphorus, calcium, sodium, sulfur and zinc will form.

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 Harmful if inhaled.

Ingestion May be harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated middle	= 7400 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	= 4.6 mg/L (Rat) 4 h
64742-46-7			
Sodium dodecyl benzene sulphonate 25155-30-0	= 438 mg/kg(Rat)	-	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg(Rat)	> 5000 mg/kg(Rabbit)	-

Zinc alkyl dithiophosphate 2000 - 5000 mg/kg (Rat) > 3160 mg/kg (Rabbit) 2215-35-2 Dermal LD50 Oral LD50 Inhalation LC50 Chemical name 2, 6-di-tert-butyl-4-methylphenol > 2930 mg/kg (Rat) > 2000 mg/kg (Rat) 128-37-0 Triphenyl phosphite = 444 mg/kg (Rat) = 1590 mg/kg > 2000 mg/kg (Rabbit) > 6.7 mg/L (Rat) 1 h 101-02-0 Rat) 2-Ethylhexanol = 3730 mg/kg (Rat)= 1980 mg/kg (Rabbit) > 227 ppm (Rat) 6 h 104-76-7 > 20 g/kg (Rat) Petroleum derived calcium salt > 5000 mg/kg (Rabbit) 61789-86-4 Severely Hydrotreated Heavy > 5000 mg/kg (Rat) > 2000 mg/kg (Rabbit) Naphthenic Petroleum Oil 64742-52-5

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

Group 3 IARC components are "not classifiable as human carcinogens". 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.

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IARC Chemical name **ACGIH** NTP **OSHA** Petroleum distillates Group 1 Known Χ A2 hydrotreated heavy paraffinic 64742-54-7 2, 6-di-tert-butyl-4-Group 3 methylphenol 128-37-0 Severely Hydrotreated A2 Group 1 Χ Known Heavy Naphthenic Petroleum Oil 64742-52-5

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Carcinogenicity

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

 Oral LD50
 3,157.93 mg/kg

 Dermal LD50
 2,464.00 mg/kg

 ATEmix (inhalation-vapor)
 10.1 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated		10000: 96 h Pimephales promelas	
middle		mg/L LC50 static 35: 96 h	
64742-46-7		Pimephales promelas mg/L LC50	
		flow-through	
Sodium dodecyl benzene		10.8: 96 h Oncorhynchus mykiss	
sulphonate		mg/L LC50 static	

25155-30-0			
Petroleum distillates, hydrotreated		5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
heavy paraffinic		mg/L LC50	EC50
64742-54-7		9	
Chemical name	Algae/aquatic plants	Fish	Crustacea
Zinc alkyl dithiophosphate	1.0 - 5.0: 96 h Pseudokirchneriella	100: 96 h Pimephales promelas	4.0 - 6.0: 48 h Daphnia magna mg/L
2215-35-2	subcapitata mg/L EC50	mg/L LC50 semi-static 25 - 50: 96 h	
		Pimephales promelas mg/L LC50	
		static	
2, 6-di-tert-butyl-4-methylphenol	6: 72 h Pseudokirchneriella	5: 48 h Oryzias latipes mg/L LC50	
128-37-0	subcapitata mg/L EC50 0.42: 72 h		
	Desmodesmus subspicatus mg/L		
	EC50		
2-Ethylhexanol	11.5: 72 h Desmodesmus	29.7: 96 h Pimephales promelas	39: 48 h Daphnia magna mg/L
104-76-7	subspicatus mg/L EC50	mg/L LC50 static 10.0 - 33.0: 96 h	EC50
		Lepomis macrochirus mg/L LC50	
		static 32 - 37: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 7.5: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		27 - 29.5: 96 h Pimephales	
		promelas mg/L LC50 flow-through	
O, O, O-triphenyl phosphorothioate		100: 96 h Danio rerio mg/L LC50	
597-82-0		static	
Petroleum derived calcium salt			6.2 - 12: 48 h Daphnia magna mg/L
61789-86-4		mg/L LC50 static 1.0 - 10.0: 96 h	EC50
		Pimephales promelas mg/L LC50	
		semi-static	
Severely Hydrotreated Heavy		5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
Naphthenic Petroleum Oil		mg/L LC50	EC50
64742-52-5			

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
2, 6-di-tert-butyl-4-methylphenol 128-37-0	4.17
Triphenyl phosphite 101-02-0	4.98

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

<u>IATA</u> Not regulated

IMDG

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates, hydrotreated middle	Х	ACTIVE	Х	X		Х	Х	Х	Х
Sodium dodecyl benzene sulphonate	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х
Petroleum distillates, hydrotreated heavy paraffinic	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х
Zinc alkyl dithiophosphate	Х	ACTIVE	Х	X	Х	X	X	X	Х
2, 6-di-tert-butyl-4- methylphenol	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х
Alkylated phenol				X	Χ	X	X		
Triphenyl phosphite	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х
2-Ethylhexanol	X	ACTIVE	Χ	X	Х	X	X	X	X
O, O, O-triphenyl phosphorothioate	Х	ACTIVE	X	X	Х	X	X	X	X
Petroleum derived calcium salt	Х	ACTIVE	X	X	Χ	X	X	X	X
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	Х	ACTIVE	Х	Х		Х	Х	Х	Х

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium dodecyl benzene	1000 lb		RQ 1000 lb final RQ
sulphonate			RQ 454 kg final RQ
25155-30-0			_

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

SARA 313

Chemical name	CAS No	Weight-%	SARA 313 - Threshold
			Values %

Zinc alkyl dithiophosphato 2215 25 2	2045 25 2	_	4.0
Zinc alkyl dithiophosphate - 2215-35-2	2215-35-2	<5	1.0

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium dodecyl benzene sulphonate	1000 lb			Х

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
Sodium dodecyl benzene sulphonate 25155-30-0	Х	Х	X
Zinc alkyl dithiophosphate 2215-35-2	X		X
2-Ethylhexanol 104-76-7		X	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	2	1	1	-
<u>HMIS</u>	Health Hazards	Flammability	Physical hazards	Personal Protection
	2*	1	0	Not determined

Chronic Hazard Star Legend *= Chronic Health Hazard

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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