



# SAFETY DATA SHEET

Issue Date 06-22-2018

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Version 6

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name:** ENGINE OIL POWER-FLUSHING SOLUTION

### Other means of identification

**Common Name:** 0410  
**UN/ID No** Not Regulated  
**Synonyms** None  
**Product Categories** Cleaner, Automotive, Petroleum

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

**Sale and Use Restrictions** Not applicable  
**Recommended Use** Restricted to professional users.  
**Uses advised against** Consumer use

### Details of the supplier of the safety data sheet

**Supplier Address**  
MOC PRODUCTS CO., INC.  
12306 Montague Street  
Pacoima, CA 91331

### Emergency telephone number

**Company Phone Number** MOC PRODUCTS CO., INC. (818) 794-3500  
**Emergency Telephone** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Aspiration toxicity	Category 1

### Label elements

#### Emergency Overview

#### Danger

#### Hazard statements

Harmful if inhaled  
May be fatal if swallowed and enters airways



**Appearance** Oil

**Physical state** Liquid

**Odor** Petroleum

#### 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 at rest in a position comfortable for breathing  
Call a POISON CONTROL CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: Immediately call a POISON CONTROL 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

#### Hazards not otherwise classified (HNOC)

#### Other information

- Harmful to aquatic life with long lasting effects
- 4 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** None.

Chemical Name	CAS Number	Weight %	Trade Secret
Distillates (Petroleum), Hydrotreated Light Naphthenic	64742-53-6	90-100	*
Mineral Oil	64742-58-1	0-3	*
Hydrotreated Heavy Paraffinic Oil	64742-54-7	0-3	*
Aliphatic Petroleum Distillates	64742-65-0	0-3	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

**Skin contact** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/ attention.

**Inhalation** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing stops, get medical attention immediately.

**Eye contact** Immediately flush eyes for at least 15 minutes. Get medical attention.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Dizziness, Respiratory irritation, Gastrointestinal tract (GI): Diarrhea, Nausea, Vomiting. Coughing and/ or wheezing.

#### Indication of any immediate medical attention and special treatment needed

**Self-protection of the first aider** Low hazard for usual industrial or commercial handling.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media:

Foam, Dry chemical, Carbon dioxide (CO2).

**Small Fire** Dry chemical or CO2.

**Large Fire** No data.

**Explosive properties:** Risk of explosion if heated under confinement.

#### Specific hazards arising from the chemical

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**Hazardous combustion products** Aldehydes, Hydrocarbons, Carbon dioxide (CO2), Carbon monoxide, Oxides of sulfur.

#### Specific methods:

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

#### Special firefighting procedures:

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. As in any fire, wear

self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Dike to collect large liquid spills. The product is insoluble and floats on water. Do not use water jet. Water may cause frothing of heated materials. Move containers from fire area if you can do it without risk. Water mist may be used to cool closed containers. Avoid spreading burning liquid with water used for cooling purposes. Do not allow run-off from fire-fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Keep people away from and upwind of spill/leak. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.

**For emergency responders** Use personal protection recommended in Section 8.

### Environmental precautions

**Environmental precautions:** Avoid subsoil penetration. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

### Methods and material for containment and cleaning up

**Methods for Containment** Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike to collect large liquid spills.

**Methods for clean-up:** Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling:** Protect from physical damage. Do not store at temperatures above 120°F (50°C).

### Conditions for safe storage, including any incompatibilities

**Technical measures/precautions:** Mechanical ventilation required if used indoors on a continuous basis.

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalis.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Distillates (Petroleum), Hydrotreated Light Naphthenic 64742-53-6	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> (mist)	-
Mineral Oil 64742-58-1	5 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)	-
Hydrotreated Heavy Paraffinic Oil 64742-54-7	5 mg/m <sup>3</sup> TWA (mist) 10 mg/m <sup>3</sup> STEL (mist)	5 mg/m <sup>3</sup>	-
Aliphatic Petroleum Distillates 64742-65-0	-	Not established	-

#### Appropriate engineering controls

**Engineering measures:** Mechanical ventilation required if used indoors on a continuous basis.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear chemical resistant gloves (consult your safety equipment supplier).

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with eyes, skin and clothing. Take off contaminated clothing and wash it before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid	Odor	Petroleum
Appearance	Oil	Odor threshold	No information available
Color	Light brown		

Property	Values	Remarks • Method
pH	N/A	
Melting point/freezing point	No information available	
Boiling point / boiling range	> 154 °C / 310 °F	
Flash point	> 127 °C / 260 °F	(based on components)
Evaporation rate	Slower than ether	Slower than ether
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	
Specific Gravity	0.88	
Water solubility	Insoluble in water	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	5.8 mm <sup>2</sup> /s	@ 40 °C
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

### Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	93
Density	0.88 g/cc
Bulk density	No Data Available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity Stable.

### Chemical stability

Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalies.

### Hazardous Decomposition Products

**Hazardous Decomposition Products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Hydrocarbons, Nitrogen oxides (NO<sub>x</sub>), Sulfur

oxides (SOx), Hydrogen sulfide.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Harmful if inhaled. May be fatal if swallowed and enters airways.
<b>Inhalation</b>	Not an expected route of exposure. Avoid breathing vapors or mists: Harmful if inhaled.
<b>Eye contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	Potential for aspiration if swallowed. This material can get into the lungs during swallowing or vomiting which may result in lung inflammation and/or lung injury.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates (Petroleum), Hydrotreated Light Naphthenic 64742-53-6	-	>2000 mg/kg ( Rabbit )	2.18 mg/l (Rat)
Mineral Oil 64742-58-1	> 2000 mg/kg ( Rat )	> 4480 mg/kg ( Rabbit )	-
Hydrotreated Heavy Paraffinic Oil 64742-54-7	>5000mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Aliphatic Petroleum Distillates 64742-65-0	-	-	-

### Information on toxicological effects

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	Skin Sensitization: Not expected. Respiratory Sensitization: Not classified.
<b>Mutagenic effects:</b>	No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	No information available.
<b>Subchronic toxicity</b>	No information available.
<b>Target Organ Effects</b>	Skin, Eyes, Respiratory system.
<b>Neurological effects</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

### Numerical measures of toxicity - Product Information

<b>Unknown Acute Toxicity</b>	4 % of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (oral)</b>	81056 mg/kg
<b>ATEmix (dermal)</b>	833333 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	1.6 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

5.25 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Distillates (Petroleum), Hydrotreated Light Naphthenic 64742-53-6		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Mineral Oil 64742-58-1		79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static		
Hydrotreated Heavy Paraffinic Oil 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Aliphatic Petroleum Distillates 64742-65-0		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

### Persistence and degradability

This product contains components which may be persistent in the environment.

### Mobility

The product is insoluble and floats on water.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal of wastes**

Dispose of in accordance with federal, state and local regulations.

#### **Contaminated packaging**

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

### DOT

Not regulated

### IATA

Not regulated

### IMDG

Not regulated



## 15. REGULATORY INFORMATION

### International Inventories

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

### Federal Regulations

#### 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

#### 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

#### 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).

#### 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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### State Regulations (RTK)

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

#### NFPA Rating

Health hazards 1

Flammability 1

Instability 0

Physical and Chemical Properties -

#### HMIS Rating

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection B

Prepared by

Environmental Health and Safety Department

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Revision Note

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This data sheet contains changes from the previous version in section(s): 1.

**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**