

# FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

## SAFETY DATA SHEET

According to REACH, Regulation (EC) N° 1907/2006 and amendments

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### Section 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name	<b>FUNCTIONAL MH-4500</b>
Chemical Family	Solution of polyalkylmethacrylates in highly refined mineral oil
Product Use	Lubricant Additive
CAS Registry Number	Mixture
Revision Date	August 1 <sup>st</sup> 2017

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### Section 2: HAZARDS IDENTIFICATION

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This material has no known hazards.

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) N° 1272/2008 [CLP]

This is not a hazardous substance or mixture according Regulation (EC) No. 1272/2008.  
No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

This is not a hazardous substance of mixture according to EC-directives 67/548/EEC or 1999/45/EC.

This material has no known hazards, if the regulations/notes for storage and handling are considered and followed.

## 2.2 LABEL ELEMENTS

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

According to Regulation (EC) N° 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008.

According to Directive 67/54//EEC or 1999/45/EC

European Economic Community (EEC) Directives

The product does not require a hazardous warning label in accordance with EEC Directives.

## 2.3 OTHER ELEMENTS

If it is applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Regulation (EC) No. 1272/2008 [CLP]

This material has no known hazards

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## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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<u>Component</u>	<u>Wt%</u>	<u>CAS #</u>
Mineral Oil	10 – 60	64741-88-4
Polyalkylmethacrylates	40 – 90	Proprietary

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## Section 4: FIRST-AID MEASURES

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Inhalation:	If inhaled, remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	If affected person is conscious, give plenty of water to drink. Never give anything to drink to an unconscious person. Get medical attention if symptoms appear.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

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### **Section 5: FIRE-FIGHTING MEASURES**

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Extinguishing Media: Do not use direct water jets on fire, only to cool surrounding areas. Use carbon dioxide, foam or water spray; use means of used in spray to prevent entry to water courses. Dry chemical, foam or CO2 suggested media.

Fire-Fighting Procedures: Recommended wearing self-contained breathing apparatus and full turnout gear.

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### **Section 6: ACCIDENTAL RELEASE MEASURES**

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Personal Precaution: Personal Protective Equipment must be worn. Keep unnecessary personnel away.

Environmental Precautions And Clean Up Methods: Isolate spill area. Recover free product for reuse or recycle and/or disposal. Absorb with liquid binding material, sand, diatomite, saw dust. Prevent entry into sewers or waterways.

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### **Section 7: HANDLING AND STORAGE**

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Handling: Keep away from heat, sparks and flames. Ensure good ventilation. Keep containers closed.

Storage: Keep container tightly closed, in cool, well-ventilated and dry area. Store away from sources of ignition.

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### **Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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Ventilation: Use with adequate ventilation to control fumes.

Hands: Use chemical resistant, impervious gloves.

Eyes: Use safety glasses, goggles or face mask.

Clothing: Long sleeve shirt is recommended.

Respiratory System: Use appropriate respiratory protection if there is any potential for uncontrolled release or exposure levels are not known.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State:	Colorless to amber colored liquid
Odor:	Slightly fatty odor
Specific Gravity@ 30 C	0.93 typical
Solubility:	Insoluble in water.
Viscosity @ 100C:	800 – 2000 cSt
Flash point (COC):	150 C (min)
Auto ignition temp:	> 200C
Vapor press @ 15C	<1 MBAR
Exposure limits:	Not established

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**Section 10: STABILITY AND REACTIVITY**

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Stability:	The product is stable.
Incompatibility:	None reasonably foreseeable.
Conditions to Avoid:	decomposition may occur after prolonged exposure to temperatures above 200 C.
Hazardous Decomposition:	Methacrylate monomers. Oil vapors if overheated.

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**Section 11: TOXICOLOGICAL INFORMATION**

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**ACUTE EXPOSURE**

Oral Toxicity:	No data available
Eye Irritation:	No data available
Skin Irritation:	No data available
Dermal Toxicity:	No data available
Inhalation Toxicity:	No data available

**CHRONIC EXPOSURE**

Chronic Toxicity:	No data available
Carcinogenicity:	No data available
Teratogenicity:	No data available
Reproductive Toxicity:	No data available

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**Section 12: ECOLOGICAL INFORMATION**

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Environmental Hazards:	No data available
Environmental Fate:	No data available
Fish Toxicity:	No data available
Algae Toxicity:	No data available
Bacteria Toxicity:	No data available

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**Section 13: DISPOSAL CONSIDERATIONS**

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Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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**Section 14: TRANSPORTATION INFORMATION**

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U.S DOT Bulk	Not regulated
U.S. DOT Non-Bulk	Not regulated
IMDG Code	Not regulated
ICAO	Not regulated
ADR/RID Hazard Class	Not regulated

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**Section 15: REGULATORY INFORMATION**

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U.S. TSCA Inventory:	Yes
Other TSCA Reg.:	No
SARA EXT. HAZ. SUBS:	No
SARA Section 313:	No
CERCLA:	No
CAL. PROP. 65:	No
Japan MITI:	Listed - MITI
Australia:	Listed - AICS
Europe:	Listed - EINECS Polymers are exempt from EINECS inventory under the polymer exemption.
China	Listed - IECSC
Canada	Listed - DSL WHMIS – not controlled.
Korea	Listed - KECI
New Zealand	Listed - NZIoC
Philippines	Listed - PICCS

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**Section 16: OTHER INFORMATION**

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NFPA Code:	Health: 1	Fire: 1	Reactivity: 0
HMIS Code:	Health: 1	Fire: 1	Reactivity: 0

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