

FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

SAFETY DATA SHEET

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	FUNCTIONAL MD-8000
Chemical Family	Solution of polyalkylmethacrylates in highly refined mineral oil
Product Use	Lubricant Additive
CAS Registry Number	Mixture
Revision Date	November 15 th 2018

Manufacturer: Functional Products, Inc.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
Tel (USA): + 1 330-963-3060
Fax (USA): + 1 330-963-3322
E-mail: SDS@functionalproducts.com

European Supplier: Lumar Quimica S.L.U.
Milanesat, 25-27, 4t. 1a.
08017 Barcelona
Spain
Tel: + 34 93 594 75 00
Fax: + 34 93 594 75 01
E-mail: lumar@lumarquimica.com

Emergency Phone Numbers:
United States: + 330-963-3060 (8:00AM-5:00PM EST)
Europe + 34 93 594 75 00 (08:00 -13:00 14:00-17:00)
France (ORFILA): + 33 (0)1 45 42 59 59

Section 2: HAZARDS IDENTIFICATION

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

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

Section 4: FIRST-AID MEASURES

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.

Section 5: FIRE-FIGHTING MEASURES

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.

Section 6: ACCIDENTAL RELEASE MEASURES

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.

Section 7: HANDLING AND STORAGE

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.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10: STABILITY AND REACTIVITY

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.

Section 11: TOXICOLOGICAL INFORMATION

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

Section 12: ECOLOGICAL INFORMATION

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

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORTATION INFORMATION

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

Section 15: REGULATORY INFORMATION

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:	No
Europe:	Listed - EINECS Polymers are exempt from EINECS inventory under the polymer exemption.
China	No
Canada	Listed - DSL WHMIS – not controlled.
Korea	No
New Zealand	Listed - NZIoC
Philippines	No

Section 16: OTHER INFORMATION

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

The information presented herein has been compiled from sources considered to be dependable and are accurate to the best of FUNCTIONAL PRODUCTS INC. knowledge at the date of its publication. The information given is designed only as 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.

This safety data sheet contains information relating to safety only and does not replace any product information or product specification. Suggestions or applications are only opinions. Users are responsible for determining the suitability of this material for their own particular purpose. FUNCTIONAL PRODUCTS INC. makes no warranty whatsoever and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.