

FUNCTIONAL PRODUCTS INC.

Innovative Chemistry for Lubricants

SAFETY DATA SHEET

According to REACH, Commission Regulation (EU) 2015/830 of 28 May 2015

Section 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|---------------------|---|
| Product Name | FUNCTIONAL PD-620 |
| Chemical Family | Solution of alkyl methacrylate polymer in mineral oil |
| Product Use | Lubricant Additive |
| CAS Registry Number | Mixture |
| Revision Date | February 10, 2017 |

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 is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) N^o 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

| Substance/ Preparation | % (W/W) | CAS # |
|------------------------|---------|------------|
| Mineral Oil | 30-60 | 64741-88-4 |
| Alkyl Methacrylate | 40-70 | 25719-52-2 |

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 | 0.90 typical |
| Solubility: | Insoluble in water. |
| Viscosity @ 100C: | 200 – 800 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: | 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 |

Section 16: OTHER INFORMATION

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

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