SAFETY DATA SHEET


1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>FUNCTIONAL PD-610</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>Solution of alkyl methacrylate polymer in mineral oil</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>Lubricant Additive</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>64742-65-0 / 64741-88-4</td>
</tr>
<tr>
<td>REVISION DATE</td>
<td>September 12, 2011</td>
</tr>
</tbody>
</table>

MANUFACTURER / SUPPLIER

Functional Products, Inc.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
Tel: 330-963-3060  Fax: 330-963-3322

2. HAZARDS IDENTIFICATION

No particular hazard known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>100</td>
<td>64742-65-0 / 64741-88-4</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

INHALATION: Remove exposed person to fresh air. Get medical attention.

INGESTION: Do not induce vomiting. Seek medical advice.

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.
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.

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.

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.

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.

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
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.

11. **TOXICOLOGICAL INFORMATION**

Acute toxicity:

**Oral:** LD₅₀ > 2000mg/kg (rat)

**Skin:** May cause irritation if exposure is prolonged.

**Eyes:** May cause irritation of eyes.

**Sensitization:** None known

12. **ECOLOGICAL INFORMATION**

**Environmental Hazards:** Contains mineral oil which may be dangerous to the environment.

**Environment Fate:** Contains components which may persist in the environment.

13. **DISPOSAL CONSIDERATIONS**

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

14. **TRANSPORTATION INFORMATION**

**Marine transport IMDG:** Not dangerous

**Land Transport (ADR):** Not dangerous

**Air transport ICAO/IATA:** Not dangerous
15. **REGULATORY INFORMATION**

**U.S. TSCA INVENTORY**
All components listed or exempted.

**JAPAN MITI**
All components are listed on MITI inventory.

**AUSTRALIA**
All components are listed on AICS inventory.

**EUROPE**
Petroleum oil is listed on EINECS inventory.
Polymers are exempt from EINECS inventory under the polymer exemption.

**CHINA**
All components are listed on China’s inventory.

**CANADA**
All components are listed on DSL inventory.

**KOREA**
All components listed or exempted

**NEW ZEALAND**
All components are listed on NZIoC inventory.

16. **OTHER INFORMATION**

The information presented herein has been complied from sources considered to be dependable and are accurate to the best of FUNCTIONAL PRODUCTS INC. knowledge. However 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.