SAFETY DATA SHEET
According REACH Title IV, Annex II and Format ISO 11014 PIB – and also with:

1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>FUNCTIONAL MW - 612</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>POLYMER-IN WATER-IN OIL EMULSION</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>ANTIMISTING ADDITIVE</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>REVISION DATE</td>
<td>July 31, 2012</td>
</tr>
</tbody>
</table>

MANUFACTURER / SUPPLIER
FUNCTIONAL PRODUCTS INC.
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Macedonia, Ohio 44056, USA
Tel: 330-963-3060
Fax: 330-963-3322

2. HAZARDS IDENTIFICATION

EYES: Direct contact with this material can cause severe eye irritation.
SKIN: Moderately irritating to skin.
INGESTION: No hazards are anticipated from ingestion.
INHALATION: Material is not expected to be harmful if inhaled.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPOLYMER</td>
<td>20 – 40</td>
<td>PROPRIETARY</td>
</tr>
<tr>
<td>PETROLEUM DISTILLATE</td>
<td>20 – 30</td>
<td>64742-47-8</td>
</tr>
<tr>
<td>WATER</td>
<td>30 – 55</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>
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:** No specific intervention is indicated, as compound is not likely to be hazardous by ingestion. Get medical attention if necessary.

**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**

**FLASH POINT:** > 93°C / 200°F

**UPPER FLAMMABLE LIMIT:** Not determined.

**LOWER FLAMMABLE LIMIT:** Not determined.

**EXTINGUISHING MEDIA:** In case of fire, use water, foam dry chemicals or CO₂.

**FIRE-FIGHTING PROCEDURES:** Recommended wearing self-contained breathing apparatus and full turnout gear.

6. **ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**
Personal Protective Equipment must be worn. Keep unnecessary personnel away.

**ENVIRONMENTAL PRECAUTIONS AND CLEAN UP METHODS**
Spills of this product are very slippery. Spilled material should be absorbed onto an inert material and scooped up. The area should be thoroughly flushed with water and scrubbed to remove residue.

7. **HANDLING AND STORAGE**

**HANDLING:** Avoid contact with eyes and skin. Wash thoroughly after handling.

**STORAGE:** This material reacts slowly with iron, copper, and aluminum, resulting in corrosion and product degradation. Avoid using iron, copper or aluminum containers or equipment.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use with adequate ventilation to control exposure.
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: Viscous liquid
COLOR: Opague
ODOR: Slight hydrocarbon odor
SPECIFIC GRAVITY: 1.0
SOLUBILITY: Appreciable
PH: 4.6
EVAPORATION RATE: < 1 (Butyl acetate – 1)
MELTING POINT: -18°C (0°F)

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.
INCOMPATIBILITY: Strong oxidizing agents. This material reacts slowly with iron, copper or aluminum, resulting in corrosion and product degradation.
CONDITIONS TO AVOID: None known.
HAZARDOUS DECOMPOSITION: CO, CO₂, ammonia and/or oxides of nitrogen.
POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information on the OSHA regulated components of this product is as follows.

Acute overexposure to petroleum distillate vapors may cause eye and throat irritation. Certain petroleum distillate fractions may produce moderate to severe skin irritation with direct skin contact. Prolonged repeated exposure to petroleum distillate vapor may cause central nervous system damage as well as heart and blood disorders. The oral LD50 in the rat for various distillates ranges from 4.5 to > 25 ml/kg, and the inhalation LC50 in rats is about 15000ppm. Aspiration of petroleum distillate may cause chemical pneumonitis. Overexposure to vapor may cause dizziness, drowsiness, headache, and nausea. This product contains chemical(s) known to the State of California to cause cancer.
12. **ECOLOGICAL INFORMATION**

**LC 50**

BLUEGILL 96 HOUR: > 100.0 mg/L  
TROUT 96 HOUR: > 100.0 mg/L  
ALGAE TOXICITY Not available  
BACTERIA TOXICITY Not available

13. **DISPOSAL CONSIDERATIONS**

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

14. **TRANSPORTATION INFORMATION**

U.S DOT BULK Not regulated.  
U.S. DOT NON-BULK Not regulated.  
IMO Not regulated.  
ICAO/IATA Not regulated.  
TRANSPORT CANADA Not regulated.

15. **REGULATORY INFORMATION**

U.S.TSCA INVENTORY Yes  
SARA EXT. HAZ. SUBS. No  
SARA Section 313 No  
CERCLA No  
CAL. PROP. 65 Yes  

CANADA All components are listed on DSL inventory.  
EEC EINECS All components are listed on EINECS inventory.

16. **OTHER INFORMATION**

NFPA CODE  
Health: 2  Fire: 1  Reactivity: 0

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