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 AW-487</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>SOLUTION OF CARBOXYLATE SALTS IN WATER</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>ANTIWEAR LUBRICANT ADDITIVE</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>REVISION DATE</td>
<td>January 30, 2009</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. HAZARD IDENTIFICATION

EYES:             Mildly irritating to eyes.
SKIN:             Prolonged or repeated contact with skin may cause mild irritation and possible dermatitis.
INGESTION:        Low toxicity on ingestion.
INHALATION:       If heated, sprayed or misted, this product may cause chemical pneumonitis.
CARCINOGENICITY:  Not listed as a carcinogenic.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>(% w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>60 - 90</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>ORGANIC CARBOXYLATE SALTS</td>
<td>10 - 40</td>
<td>Proprietary</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:** 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. Do not induce vomiting.

**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:** Not Applicable – boils at 100°C

**UPPER FLAMMABLE LIMIT:** Not determined.

**LOWER FLAMMABLE LIMIT:** Not determined.

**EXTINGUISHING MEDIA** In case of fire use water spray (fog), foam or dry chemicals.

**HAZARDOUS COMBUSTION PRODUCTS** Oxides of Carbon, Smoke and Fumes.

**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 should be contained, absorbed and containerized for disposal in accord with local, state and federal regulations. Prevent entry to sewers and water-way.

7. **HANDLING AND STORAGE**

**HANDLING:** Wash thoroughly after handling.

**STORAGE:** Keep container tightly closed, in cool, well ventilated area.
8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION:** Use with adequate ventilation.

**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 the potential

9. **PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**COLOR:** Water White

**ODOR:** Mild – No significant odor

**DENSITY:** 1.10 g / cm3 at 15 deg C (59 Deg F)

**SOLUBILITY:** Soluble in water.

**BOILING POINT:** 100°C

**VAPOR PRESSURE:** < 0.1

**EVAPORATION RATE:** < 1

10. **STABILITY AND REACTIVITY**

**STABILITY:** The product is stable.

**INCOMPATIBILITY:** Strong oxidants and reducing agents.

**CONDITIONS TO AVOID:** Not known.

11. **TOXICOLOGICAL INFORMATION**

**SENSITIZATION:** Based on current information, there is no known human sensitization associated with this product.

**MUTAGENICITY:** Experimental evidence suggests that this product does not cause mutagenesis.

**CARCINOGENICITY** Not classified or listed by IARC, NTP, OSHA, EU, and ACGIH.

**TERATOGENICITY** Based on best current information, there is no known teratogenicity associated with this product.

**REPRODUCTIVE TOXICITY** Based on best current information, there is no known reproductive toxicity associated with this product.

12. **ECOLOGICAL INFORMATION**

**ENVIRONMENTAL HAZARDS** Not available

**FISH TOXICITY** Not available

**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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S DOT BULK</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>U.S. DOT NON-BULK</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>IMDG CODE</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>ICAO</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>ADR/RID HAZARD CLASS</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

15. **REGULATORY INFORMATION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.TSCA INVENTORY</td>
<td>Yes</td>
</tr>
<tr>
<td>SARA EXT. HAZ. SUBS.</td>
<td>No</td>
</tr>
<tr>
<td>SARA Section 313</td>
<td>No</td>
</tr>
<tr>
<td>CERCLA</td>
<td>No</td>
</tr>
<tr>
<td>CAL. PROP. 65</td>
<td>No</td>
</tr>
<tr>
<td>CANADA</td>
<td>All components are listed on DSL inventory.</td>
</tr>
<tr>
<td>EUROPE</td>
<td>All components are in listed in the EINECS inventory.</td>
</tr>
<tr>
<td>KOREA</td>
<td>All components are listed on ECI inventory.</td>
</tr>
</tbody>
</table>

16. **OTHER INFORMATION**

**NFPA CODE**

Health: 1  Fire: 0  Reactivity: 0

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