SAFETY DATA SHEET

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

Section 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>April 13, 2015</td>
</tr>
</tbody>
</table>

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

GHS Label Elements
GHS Classification

Eye Damage/ Eye Irritation: Category 2B. Skin Irritation: Category 2. Inhalation: Category 5
Oral: Category 4

Signal Word
Warning

Hazard Statements
H320- Causes eye irritation. H315 - Causes skin irritation. H333 - May be harmful if inhaled.
H302- Harmful if swallowed.

Precautionary Statements

Prevention
P280- Wear protective gloves/protective clothing/eye protection.
P264– Wash thoroughly after handling.

Response
P305 + P351 + P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water. P332 + P313 – If skin irritation occurs: get medical/attention.

Disposal
P501 – Dispose of contents/container in accordance with local / regional / national / international regulations.

Section 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>

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

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.

Section 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.

Section 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling.
Storage: Keep container tightly closed, in cool, well-ventilated area.

Section 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 for inhalation.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Clear
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
Section 10: STABILITY AND REACTIVITY

Stability: The product is stable.
Incompatibility: Strong oxidants and reducing agents.
Conditions to Avoid: Not known.

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 UN 3265, Corrosive Liquid, Acidic, Organic, NOS (caprylic acid) 8, PG III
U.S. DOT Non-Bulk Not regulated
IMDG Code Not regulated
ICAO Not regulated
ADR/RID Hazard Class Not regulated
Section 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>U.S. TSCA Inventory:</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other TSCA Reg.:</td>
<td>No</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>Japan MITI:</td>
<td>Listed - MITI</td>
</tr>
<tr>
<td>Australia:</td>
<td>Listed - AICS</td>
</tr>
<tr>
<td>Europe:</td>
<td>Listed - EINECS</td>
</tr>
<tr>
<td></td>
<td>Polymers are exempt from EINECS inventory under the polymer exemption.</td>
</tr>
<tr>
<td>China</td>
<td>Listed - IECSC</td>
</tr>
<tr>
<td>Canada</td>
<td>Listed - DSL</td>
</tr>
<tr>
<td></td>
<td>WHMIS – not controlled.</td>
</tr>
<tr>
<td>Korea</td>
<td>Listed - KECl</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Listed - NZIoC</td>
</tr>
<tr>
<td>Philippines</td>
<td>Listed - PICCS</td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Code</th>
<th>Health: 1 Fire: 0 Reactivity: 0</th>
</tr>
</thead>
</table>

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