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 CI – 432</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>AMINE PHOSPHATES</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>CORROSION INHIBITOR / ANTI-WEAR ADDITIVE</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>ISSUE DATE</td>
<td>July 30, 2012</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

MARINE ENVIRONMENT: Toxic to Aquatic Organisms

EYES: Irritating to eyes.

SKIN: Irritating to skin. Prolonged or repeated contact may cause dermatitis.

INGESTION: Irritating to the esophagus.

INHALATION: May be irritating to the mucous membrane with prolonged exposure.

CARCINOGENICITY: Not listed as a carcinogen.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEGETABLE OIL</td>
<td>38 - 56</td>
<td>8002-13-9</td>
</tr>
<tr>
<td>ARYL PHOSPHOROTHIOATE</td>
<td>8 - 16</td>
<td>597-82-0</td>
</tr>
<tr>
<td>ALKYLATED PHOSPHOROTHIOATE</td>
<td>8 - 16</td>
<td>192268-65-8</td>
</tr>
<tr>
<td>C11-14 BRANCHED ALKYL AMINES,</td>
<td>22 - 34</td>
<td>80939-62-4</td>
</tr>
<tr>
<td>MONOHEXYL AND DIHEXYL PHOSPHATE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLYALKYLMETHACRYLATE</td>
<td>0.5 – 2.0</td>
<td>CONFIDENTIAL</td>
</tr>
</tbody>
</table>
4. FIRST-AID MEASURES

INHALATION: Remove to fresh air. In case of irritation to the respiratory system or mucous membranes, get medical attention. In case of prolonged exposure, get medical attention.

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: > 105° C / 220° F

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, nitrogen and phosphorus. Smoke and fumes.

FIRE-FIGHTING PROCEDURES: Recommended to wear self-contained breathing apparatus and full protective 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. Do not flush into surface water, sanitary sewer or ground water system.

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 for overexposure to fumes.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid
COLOR: Yellow
ODOR: Amine-like.
DENSITY: 0.99 g / cm³ at 15°C (59 °F)
SOLUBILITY: Insoluble in water.
BOILING POINT: N/A
VAPOR PRESSURE: < 0.1
EVAPORATION RATE: < 1

10. **STABILITY AND REACTIVITY**

STABILITY: The product is stable.
INCOMPATIBILITY: Strong acids, bases, 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

U.S. DOT BULK
Not regulated.

ICAO
Class: 9
UN No.: 3082
Packing Group: III
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
Additional Information: (Amine Phosphate)

ADR/RID HAZARD CLASS
Class 9

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
All components are listed on MITI inventory.

AUSTRALIA
All components are in compliance with chemical notification requirements in Australia.

EUROPE
All components are listed on EINECS inventory.

CHINA
All components are listed on China’s inventory.

CANADA
All components are listed on DSL inventory.

KOREA
All components are listed on ECI inventory.

PHILIPPINES
All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act Of 1990 (R.A. 6969).

16. OTHER INFORMATION

NFPA CODE
Health: 2 Fire: 1 Reactivity: 0

The information presented herein has been compiled 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.