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 – 498</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>AQUEOUS SOLUTION OF PHOSPHATE SALT</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>CORROSION INHIBITOR</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>REVISION DATE</td>
<td>July 30, 2012</td>
</tr>
</tbody>
</table>

MANUFACTURER / SUPPLIER
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Fax: 330-963-3322

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Continuous contact may cause skin and eye irritation.

POTENTIAL HEALTH EFFECT: Product is mildly irritating to the eyes. Skin irritation from continuous contact has been reported during manufacturing when protective measures for contact or personal hygiene procedures are not followed. Human industrial experience has shown no significant inhalation hazard or skin irritation when exposures are properly controlled.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOSPHATE</td>
<td>10 – 25</td>
<td>PROPRIETARY</td>
</tr>
<tr>
<td>WATER</td>
<td>75 – 90</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:**
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.

5. **FIRE-FIGHTING MEASURES**

**FLASH POINT:**
Non-flammable liquid

**UPPER FLAMMABLE LIMIT:**
Not determined.

**LOWER FLAMMABLE LIMIT:**
Not determined.

**EXTINGUISHING MEDIA**
N/A

**FIRE-FIGHTING PROCEDURES**
N/A

6. **ACCIDENTAL RELEASE MEASURES**

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

**ENVIRONMENTAL PRECAUTIONS AND CLEAN UP METHODS**
Spills should swept up for salvage or 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:**
Avoid freezing or boiling temperatures.

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 mask to prevent inhalation when handling.

**OCCUPATIONAL EXPOSURE LIMITS:**
No exposure limits have been established.
9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOR: Clear (Colorless)
ODOR: None
SPECIFIC GRAVITY: 1.1
SOLUBILITY: Soluble in water
BOILING POINT: N / A
VAPOR PRESSURE: N / A
EVAPORATION RATE: N / A

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.
INCOMPATIBILITY: None.
CONDITIONS TO AVOID: None.
HAZARDOUS DICOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Mildly irritating (rabbit) [FMC 186-917].
SKIN EFFECTS: Non-irritating (rabbit) [FMC 188-1047].

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS Not available
ENVIRONMENTAL FATE Not available
FRESHWATER Not available
BACTERIA TOXICITY Not available
FISH TOXICITY Not available
ALGAE TOXICITY Not available

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL This product does not present a danger or hazard for disposal. May be disposed of in landfills according to local, state or federal regulations.

14. TRANSPORTATION INFORMATION

U.S DOT BULK Not regulated.
U.S. DOT NON-BULK Not regulated.
IMDG CODE Not regulated.
ICAO Not regulated.
ADR/RID HAZARD CLASS Not regulated.
15. REGULATORY INFORMATION

U.S. TSCA INVENTORY  Yes
EPA (SARA 311,312)  No
SARA EXT. HAZ. SUBS.  No
SARA Section 313  No
CERCLA  No
CAL. PROP. 65  No
EUROPE  The components are listed on the EINECS inventory.
JAPAN  The components are listed on MITI inventory.
AUSTRALIA  The components are in compliance with chemical notification requirements in Australia.
CANADA  The components are listed on DSL inventory.
KOREA  The components are listed on Existing Components List (ECL).
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: 1  Fire: 1  Reactivity: 0
HMIS CODE  Health: 1  Fire: 1  Reactivity: 0

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