SPARTAN CHEMICAL COMPANY, INC.
WHMIS MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER:
FOAMING ACID CLEANER FP

PRODUCT USE: High foam acid cleaner for food processing

MANUFACTURER'S NAME & ADDRESS
Spartan Chemical Company, Inc.
1110 Spartan Drive, Maumee, OH 43537 USA

MEDICAL EMERGENCY TELEPHONE
888/314-6171 (24 Hours)
PRODUCT INFORMATION: 800/537-8990

SECTION II: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CAS REGISTRY NO.</th>
<th>% W</th>
<th>CHEMICAL NAME(S)</th>
<th>TWA mg/m³</th>
<th>STEL mg/m³</th>
<th>Ceiling mg/m³</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-38-2</td>
<td>30-35</td>
<td>Phosphoric acid</td>
<td>1</td>
<td>3 (NIOSH)</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>68439-46-3</td>
<td>1-5</td>
<td>Alcohol ethoxylate</td>
<td>---</td>
<td>Not Established</td>
<td>Not available</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

SECTION III: PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT</th>
<th>SPECIFIC GRAVITY (H₂O = 1)</th>
<th>PERCENT SOLID BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100°C (212°F)</td>
<td>1.21</td>
<td>30-35</td>
</tr>
<tr>
<td>VAPOUR PRESSURE</td>
<td>EVAPORATION RATE (butyl acetate = 1)</td>
<td>FREEZING POINT</td>
</tr>
<tr>
<td>Not established</td>
<td>&lt; 1</td>
<td>Not available</td>
</tr>
<tr>
<td>VAPOUR DENSITY (AIR = 1)</td>
<td>SOLUBILITY IN WATER</td>
<td>Not available</td>
</tr>
<tr>
<td>Not established</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>APPEARANCE AND ODOR</td>
<td>ODOR THRESHOLD</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Pale red liquid, mild odor</td>
<td>Not available</td>
</tr>
<tr>
<td>COEFFICIENT OF WATER/OIL DISTRIBUTION</td>
<td>PHYSICAL STATE</td>
<td></td>
</tr>
<tr>
<td>Not available</td>
<td>GAS LIQUID X SOLID</td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV: FIRE & EXPLOSION DATA

<table>
<thead>
<tr>
<th>FLASH POINT</th>
<th>METHOD USED</th>
<th>FLAMMABLE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 100°C (212°F)</td>
<td>ASTM - D56</td>
<td>Not available</td>
</tr>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>CONDITIONS OF FLAMMABILITY</td>
<td>AUTO-IGNITION TEMPERATURE</td>
</tr>
<tr>
<td>Carbon dioxide, dry chemical, water</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>HAZARDOUS COMBUSTION PRODUCTS</td>
<td>EXPLOSION DATA</td>
<td></td>
</tr>
<tr>
<td>Not established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SPECIAL FIRE FIGHTING PROCEDURES
Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Combustion products are toxic. Produces hydrogen on contact with most metals.
SECTION V: REACTIVITY DATA

STABILITY:  STABLE  X
CONDITIONS OF INSTABILITY:  Not established
CONDITIONS OF REACTIVITY:  Not established

INCOMPATIBILITY (MATERIALS TO AVOID): Concentrated alkali, hypochlorites (chlorine bleach), aluminum and other reactive metals.
HAZARDOUS DECOMPOSITION PRODUCTS:  Oxides of phosphorus, carbon monoxide, carbon dioxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY:  Eye Contact, Skin Contact, Ingestion, Inhalation, Skin Absorption
EXPOSURE LIMIT:  Not established for mixture.
EFFECTS OF ACUTE EXPOSURE:
EYE CONTACT:  Causes severe eye damage and chemical burns. Eye contact may cause permanent damage.
SKIN CONTACT:  Causes severe skin damage with symptoms such as chemical burns, pain, redness and tissue destruction.
INGESTION:  Harmful if swallowed. Causes damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting, resulting in lung injury.
INHALATION:  Breathing product vapor or mist may cause irritation or damage of the respiratory tract with symptoms of nasal discomfort and discharge with chest pain and coughing.

EFFECTS OF CHRONIC EXPOSURE: None known

IRRITANCY OF PRODUCT: Corrosive to eyes and skin
SENSITIZATION TO PRODUCT:  Not available
CARCINOGENICITY:  No
REPRODUCTIVE TOXICITY:  Not available
TERATOGENICITY:  Not available
MUTAGENICITY:  Not available
SYNERGISTIC PRODUCTS:  Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS
Wear natural rubber or other impervious gloves and splash goggles. If indicated by conditions of use, impervious apron, face shield and other protective equipment should be considered in order to minimize contact with this product. Eyewash stations and washing facilities should be readily accessible. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If exposure limits (see Section II) can not be maintained by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered. (N95 or greater recommended)

LEAK AND SPILL PROCEDURE:  Dike and contain spills with inert material (sand, earth, commercial absorbent, etc.) and transfer to containers for disposal. Keep spill out of storm sewers and waterways.

WASTE DISPOSAL METHOD:  Assure conformance with regulations.

HANDLING PROCEDURES:  Do not get in eyes, on skin or clothing. Do not breathe product vapor or mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling. This product contains phosphoric acid. Do not mix with hypochlorite-type bleach or other household chemicals as hazardous vapors or gases may be produced.

STORAGE REQUIREMENTS:  Keep container closed when not in use. Keep from freezing. Do not store above 49°C (120°F). Do not mix with other chemicals. Keep out of reach of children.

SPECIAL SHIPPING INFORMATION:  UN 1760, Corrosive liquids, n.o.s., (contains phosphoric acid), 8, III

SECTION VIII: FIRST AID MEASURES

EYES:  Immediately flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.
SKIN:  Remove contaminated clothing and shoes. Flush skin with water for at least 15 minutes. Get medical attention. Wash contaminated clothing before reuse. Destroy contaminated shoes.
INGESTION:  Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.
INHALATION:  In case of respiratory irritation, move person to fresh air. Get medical attention immediately.
NOTE TO PHYSICIAN:  Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION IX: PREPARATION INFORMATION

FOAMING ACID CLEANER FP
DATE OF PREPARATION:  May 1, 2016
SUPERCEDES:  June 1, 2013
PREPARED BY:  Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.
TELEPHONE NUMBER:  800/537-8990