SECTION I - IDENTIFICATION

PRODUCT NUMBER: ............................................ SANI-DYNE
PRODUCT NAME: ........................................... Sani-Dyne
CHEMICAL FAMILY: ............................................. NSN 6840-00-782-2691
CAS NUMBER: ............................................. 7664-38-2
DATE PREPARED: ........................................... 5/28/2015
REVISION NUMBER: ............................................

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification
Corrosive to Metals Category 1
Skin Corrosion/Irritation Category 1A, B, C

DANGER!

GHS LABEL:

Hazard Statements
H290 May be corrosive to metals
H314 Causes severe burns and eye damage
Precautionary Statements

P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P404 Store in a closed container.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Component%</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic Acid</td>
<td>7664-18-2</td>
<td></td>
<td>1 mg/m³</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

SECTION IV - FIRST AID MEASURES

Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

Ingestion: If swallowed. Do not induce vomiting. Seek immediate medical attention.
**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Evacuate all unprotected personnel from the area.

**Environmental Precautions:** Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Notify proper authorities.

**Methods for Cleaning Up:** Cover with sodium bicarbonate or a soda ash/slaked lime mixture (50/50). Mix and add water if necessary to form a slurry and complete neutralization. Scoop up slurry and wash site with soda ash solution.

**SECTION VII - HANDLING AND STORAGE**

**Handling and Storage:**
- Keep containers tightly closed when not in use.
- If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

**SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic Acid</td>
<td>7664-38-2</td>
<td>1 mg/m³</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

**Monitoring:** Follow accepted work practices for handling a corrosive material.

**Personal Protective Equipment (PPE)**

**Eye Protection:** Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.
Safety Data Sheet
Sani-Dyne

Skin Protection: Impervious solvent resistant gloves. Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Strong Iodine</td>
</tr>
<tr>
<td>pH@25°C</td>
<td>1.08</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1885</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Evaporation Point</td>
<td>2.0 (Butyl Acetate = 1)</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammable Limits - Lower</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>160 mmHg @ 20°C</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>1.267</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

### SECTION X - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Material is very corrosive and will attack most metals and evolve hydrogen gas.

Hazardous Decomposition/Byproducts: Reaction with reactive metals may produce flammable hydrogen; reaction with bases can be violent and produces extreme heat.

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None
 SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: Can cause damage to nasal and respiratory passages.

Eye Contact: Will cause severe burns on contact and will damage the eyes.

Skin Contact: Causes burns, possible deep ulceration.

Ingestion: Causes severe damage to mucous membranes and deep tissues, a result in death on penetration to vital areas.

Toxicity:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic Acid</td>
<td>Oral - rat - 1530 mg/kg - Dermal - rabbit - 2740 mg/kg</td>
<td>Inhalation - rat - 25.5 mg/m3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reproductive Effects</th>
<th>Teratogenicity</th>
<th>Mutagenicity</th>
<th>Embryotoxicity</th>
<th>Sensitization to Product</th>
<th>Synergistic Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

 SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

 SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, state, and local regulations.

 SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Corrosive Liquid
Safety Data Sheet
Sani-Dyne

Contains: Phosphoric Acid
Hazard Class and Label: 8
Identification Number: UN1760
Packaging Group: III

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:
No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

<table>
<thead>
<tr>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>% by wt.</th>
<th>RQ (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>7664-38-2</td>
<td></td>
<td>5,000</td>
</tr>
</tbody>
</table>

SECTION XVI - OTHER INFORMATION

HMIS Health: 3
HMIS Flammability: 0
HMIS Reactivity: 0

Additional: