I. Basic Information:

Manufacturer: U.N.X. INCORPORATED  
Address: 707 ARLINGTON BLVD.  
City, ST Zip: GREENVILLE, NC  27858  
Country: USA  
Contact: AMENDT; WILSON  
Information Telephone Number: 252-756-8616  
Emergency Contact: CHEMTEL  
Emergency Telephone Number: 800-255-3924  
Emergency Restrictions:

Product Name: DYNO-FLO  
MSDS No.: 616  
Issue Date: 04/08/2002  
Supersedes Date: 04/01/1999

II. Hazards Identification:

EMERGENCY OVERVIEW
INHALATION, CAN IRRITATE NOSE, THROAT, AND LUNGS. SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION. INGESTION, EXTREMELY HIGH TOXICITY. WILL CAUSE BURNS TO MOUTH AND THROAT.

OSHA Regulatory Status
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

Potential Health Effects

Route(s) of Entry:
SKIN, EYES, INHALATION

Health Hazards (Acute and Chronic):
PRODUCT, CAN BE DESTRUCTIVE TO TISSUE. SKIN BURNS CAN BE PRODUCED. CONTACT WITH EYES CAN CAUSE PERMANENT DAMAGE.

Signs and Symptoms:

INHALATION, CAN IRRITATE NOSE, THROAT, AND LUNGS. SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION. INGESTION, EXTREMELY HIGH TOXICITY. WILL CAUSE BURNS TO MOUTH AND THROAT.

Medical Conditions Generally Aggravated by Exposure:
NONE KNOWN

Other Health Warnings:
NONE

Potential Environmental Effects
NONE KNOWN

III. Composition/Information on Ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% Range</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphosphoric acid, tetrapotassium salt</td>
<td>7320345</td>
<td>5-15</td>
<td></td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310583</td>
<td>10-20</td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310732</td>
<td>5-10</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732185</td>
<td>30-40</td>
<td></td>
</tr>
</tbody>
</table>

IV. First Aid Measures:

Emergency and First Aid Procedures:
FOR SKIN, FLUSH THOROUGHLY WITH WATER UNTIL "SLIPPERY" FEELING IS GONE. FOR EYES, FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN. IF INGESTED, DRINK LARGE VOLUMES OF WATER FOLLOWED BY MILD ACIDS SUCH AS 5% ACETIC ACID, ORANGE JUICE, OR ANY CITRUS JUICE. DO NOT INDUCE VOMITING. CALL PHYSICIAN.

Note to Physicians:
EYES, FLUSH WITH WATER FOR AT LEAST 15 MINUTES. DO NOT INDUCE VOMITING.
**V. Fire Fighting Measures:**

**Suitable Extinguishing Media:**
DRY CHEMICAL, WATERFOG, CO2, FOAM

**Unsuitable Extinguishing Media:**
NONE KNOWN

**Products of Combustion:**
EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

**Protection of Firefighters:**
USE NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS WHERE PRODUCT IS INVOLVED IN FIRE.

**VI. Accidental Release Measures:**

**Personal Precautions:**
RUBBER GLOVES SHOULD BE WORN.
SAFETY GOGGLES SHOULD BE WORN.

**Environmental Precautions:**
NONE KNOWN

**Methods for Containment:**
DIKE; APPROVED PLASTIC CONTAINERS

**Methods for Cleanup:**
FOR A SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN.
FOR LARGE SPILLS, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE TO A pH OF 7.0 WITH MURATIC OR PHOSPHORIC ACID SOLUTIONS.

**Other Information:**
Not Available

**VII. Handling and Storage:**

**Handling Precautions:**
EMPTY DRUMS MUST BE TREATED AS HAZARDOUS BECAUSE OF RESIDUES. KEEP CONTAINER CLOSED.

**Storage Precautions:**
STORE IN A DRY PLACE. DO NOT STORE WITH STRONG ACIDS.

**VIII. Exposure Controls/Personal Protection:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>2mg/m³</td>
<td>2mg/m³</td>
<td>Not Available</td>
</tr>
<tr>
<td>Diphosphoric acid, tetrapotassium salt</td>
<td>15mg/m³</td>
<td>10mg/m³</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>2mg/m³</td>
<td>2mg/m³</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**Engineering Controls:**
AVOID BREATHING MIST. IF EXPOSURE IS LIKELY, USE FILTER OR PROTECTIVE RESPIRATOR. MECHANICAL VENTILATION IS ACCEPTABLE.

**Personal Protective Equipment:**
RUBBER GLOVES SHOULD BE WORN.
SAFETY GOGGLES SHOULD BE WORN.
OTHER PROTECTIVE MEASURES: HAVE AN EYE BATH AND SAFETY SHOWER CLOSE BY. IF POTENTIAL FOR SKIN CONTACT, HAVE AN ACID HAND WASH NEAR BY (IE. VINEGAR SOLUTION.).
WORK HYGIENIC PRACTICES: WASH HANDS, CHANGE OUT OF CLOTHES AS SOON AS POSSIBLE. WASH CLOTHES, SHOWER OR BATHE AS SOON AS POSSIBLE.
MSDS - Material Safety Data Sheet

IX. Physical and Chemical Properties:

- Boiling Point: 140°C
- Boiling Range: NO DATA
- Solubility In Water: EXCELLENT
- Flash Point: N/A
- Evaporation Rate (Butyl Acetate = 1): N/A
- Freezing Point: 0°C
- Appearance and Odor: CLEAR LIQUID, NO ODOR
- Vapor Pressure (mm Hg.): N/A
- Partition Coefficient: NO DATA
- Odor Threshold: NO DATA
- Appearance and Odor: CLEAR LIQUID, NO ODOR
- Specific Gravity (H2O = 1): 1.36
- Other Information: THIS PRODUCT CONTAINS PHOSPHATES.

X. Stability and Reactivity:

Stability:
VERY STABLE

Conditions to Avoid:
AVOID CONTACT WITH ALUMINUM, ZINC, MAGNESIUM, COPPER. EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

Incompatible Materials:
OXIDIZABLE OR COMBUSTIBLE ORGANIC MATERIALS, STRONG OXIDIZERS.

Hazardous Decomposition Products:
EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

Possibility of Hazardous Reactions:
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

XI. Toxicological Information:

CONTACT U.N.X. INCORPORATED

XII. Ecological Information:

CONTACT U.N.X. INCORPORATED

XIII. Disposal Considerations:

FOR A SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN. FOR LARGE SPILLS, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE TO A pH OF 7.0 WITH MURATIC OR PHOSPHORIC ACID SOLUTIONS. DISPOSE OF DOWN DRAIN AFTER APPROVAL OF APPROPRIATE AUTHORITIES. CLEAN AND NEUTRALIZE ALL AREAS OF CONTACT.

XIV. Transport Information:

Shipping Name: COMPOUND, CLEANING LIQUID, (POTASSIUM HYDROXIDE)

DOT Hazard Class: 8
UN/NA#: NA 1760

DOT Subsidiary Hazard Class: Not Available
Packing Group: II

Transportation Information:
NA 1760
DOT HAZARD CLASS: 8
LABEL: CORROSIVE
PG: II
PROPER SHIPPING NAME: COMPOUND, CLEANING LIQUID, (POTASSIUM HYDROXIDE)
XV. Regulatory Information:

UNLESS OTHERWISE NOTED, NO COMPONENTS ARE SARA TITLE 3 SECTION 313 40 CFR LISTED MATERIALS. THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. THIS PRODUCT IS NOT MADE WITH VOC’S THAT COULD CAUSE DAMAGE TO THE OZONE LAYER.

XVI. Other Information:

Chemical State: Liquid ☒, Gas, Solid
Chemical Type: Pure, Mixture ☒
Hazard Category: Acute ☒, Chronic, Pressure, Fire, Reactive

Additional Manufacturer Warnings: Not Available

Additional Product Information:

ALKALI BUILDER