I. Basic Information:

Manufacturer: U.N.X. INCORPORATED
Contact: AMENDT; WILSON
Address: 707 ARLINGTON BLVD.
Information Telephone Number: 252-756-8616
City, ST Zip: GREENVILLE, NC 27858
Emergency Contact: CHEMTEL
Country: USA
Emergency Telephone Number: 800-255-3924
Product Name: DIRECTOR 1333
Emergency Restrictions:
MSDS No.: 559
Issue Date: 09/21/2005
Supersedes Date: 12/10/2004

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, EITHER DRY OR IN SOLUTION, IS DESTRUCTIVE TO TISSUE. SEVERE BURNS CAN BE PRODUCED. CONTACT WITH EYES CAN PRODUCE 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>PSRN57948000-5006P</td>
<td>TradeSecret</td>
<td>N/D</td>
<td>X</td>
</tr>
<tr>
<td>PSRN57948000-5010P</td>
<td>TradeSecret</td>
<td>N/D</td>
<td>X</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310732</td>
<td>30-40</td>
<td></td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834920</td>
<td>15-25</td>
<td></td>
</tr>
<tr>
<td>Sodium tripolyphosphate</td>
<td>7758294</td>
<td>0-10</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:
HYDROGEN

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 COLD WATER AND DISPOSE TO DRAIN. FOR A LARGE SPILL: COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE TO A pH OF 7 WITH MURATIC OR PHOSPHORIC ACID SOLUTIONS.

Other Information:
Not Available

VII. Handling and Storage:

Handling Precautions:
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>Sodium hydroxide</td>
<td>2mg/m3</td>
<td>2mg/m3</td>
<td>Not Available</td>
</tr>
<tr>
<td>PSRN57948000-5006P</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>2mg/m3</td>
<td>2mg/m3</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium tripolyphosphate</td>
<td>15mg/m3</td>
<td>10mg/m3</td>
<td>Not Available</td>
</tr>
<tr>
<td>PSRN57948000-5010P</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Engineering Controls:
AVOID BREATHING DUST. IF EXPOSURE LIKELY, USE FILTER OR DUST TYPE 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.

**IX. Physical and Chemical Properties:**

- **Boiling Point:** N/A
- **Boiling Range:** N/A
- **Solubility In Water:** EXCELLENT
- **Flash Point:** N/A
- **Odor Threshold:** NO DATA
- **Vapor Density (AIR = 1):** N/A
- **pH Range:** N/A
- **Decomposition Temp:** NO DATA
- **Lower Explosive Limit:** N/A
- **Specific Gravity (H2O = 1):** Not Available
- **Other Information:** THIS PRODUCT CONTAINS PHOSPHATES.

- **Evaporation Rate (Butyl Acetate = 1):** N/A
- **Freezing Point:** N/A
- **Appearance and Odor:** WHITE GRANULAR POWDER, NO ODOR
- **Flash Point Method:** N/A
- **Vapor Pressure (mm Hg.):** N/A
- **Partition Coefficient:** NO DATA
- **Auto-Ignition Temp:** NO DATA
- **Upper Explosive Limit:** N/A

**X. Stability and Reactivity:**

- **Stability:**
  VERY STABLE

- **Conditions to Avoid:**
  AVOID HIGH MOISTURE.

- **Incompatible Materials:**
  EXCESS MOISTURE. 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 COLD WATER AND DISPOSE TO DRAIN. FOR A LARGE SPILL: COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE TO A pH OF 7 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:** CORROSIVE SOLID, N.O.S., INORGANIC, BASIC, (SODIUM HYDROXIDE)
MSDS - Material Safety Data Sheet

DOT Hazard Class: 8
DOT Subsidiary Hazard Class: Not Available
UN/NA#: UN 3262
MSDSPackGroup: II

Transportation Information:
UN 3262
DOT HAZARD CLASS: 8
LABEL: CORROSIVE
PG: II
PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (SODIUM 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:  
CONCENTRATED LAUNDRY ALKALI