

# MSDS - Material Safety Data Sheet

## 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:** TEMPO  
**MSDS No.:** 117

**Issue Date:** 04/01/2008  
**Supersedes Date:** Not Available

## II. Hazards Identification:

### EMERGENCY OVERVIEW

INHALATION, CAN IRRITATE, NOSE, THROAT, AND LUNGS.  
 SKIN CONTACT, CAN CAUSE TISSUE DESTRUCTION, WITH LONG TERM EXPOSURE.  
 INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

### 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, WITH LONG TERM EXPOSURE.  
 INGESTION, SEVERE INTERNAL IRRITATION AND DAMAGE CAN RESULT IF TAKEN BY MOUTH.

#### **Medical Conditions Generally Aggravated by Exposure:**

NONE KNOWN

#### **Other Health Warnings:**

NONE

### Potential Environmental Effects

NONE KNOWN

## III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Potassium hydroxide	1310583	20-30	
PSRN57948000-5031P	TradeSecret	0-5	
Sodium hypochlorite	7681529	10-20	
Sodium tripolyphosphate	7758294	0-10	
Water	7732185	50-60	

## 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.

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**Note to Physicians:**

EYES, FLUSH WITH WATER FOR AT LEAST 15 MINUTES.  
DO NOT INDUCE VOMITING.

**V. Fire Fighting Measures:**
**Suitable Extinguishing Media:**

FLOOD WITH WATER

**Unsuitable Extinguishing Media:**

NONE KNOWN

**Products of Combustion:**

EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

**Protection of Firefighters:**

USE NIOSH CERTIFIED GAS MASK WITH CANISTER FOR CHLORINE. IF POSSIBLE REMOVE CONTAINER TO OPEN AIR AND FLOOD WITH WATER.

**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 SMALL SPILLS, MATERIAL SHOULD BE DELUGED WITH WATER AND DISPOSED TO SEWER.  
FOR LARGE SPILLS, MATERIAL SHOULD BE DIKED AND DELUGED UNTIL REACTION IS QUENCHED. SOLUTION SHOULD BE CAREFULLY NEUTRALIZED WITH A REDUCING AGENT.

**Other Information:**

Not Available

**VII. Handling and Storage:**
**Handling Precautions:**

KEEP CONTAINER CLOSED.

**Storage Precautions:**

DO NOT STORE IN DIRECT SUNLIGHT. AVOID MIXING WITH DRY SOUR IN WASHWHEEL SUPPLY DISPENSER.

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

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Potassium hydroxide	2mg/m3	2mg/m3	Not Available
Sodium tripolyphosphate	15mg/m3	10mg/m3	Not Available
PSRN57948000-5031P	5mg/m3	5mg/m3	Not Available
Water	Not Available	Not Available	Not Available
Sodium hypochlorite	2mg/m3	2mg/m3	Not Available

**Engineering Controls:**

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

**Personal Protective Equipment:**

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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, WEAR PROTECTIVE GLOVES AND HAVE A HAND WASH AREA NEAR BY (ie. SOAP 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:

<b>Boiling Point:</b> 100°C	<b>Melting Point:</b> -25°C
<b>Boiling Range:</b> NO DATA	<b>Freezing Point:</b> NO DATA
<b>Solubility In Water:</b> EXCELLENT	<b>Evaporation Rate (Butyl Acetate = 1):</b> NO DATA
<b>Flash Point:</b> N/A	<b>Flash Point Method:</b> N/A
<b>Odor Threshold:</b> NO DATA	<b>Appearance and Odor:</b> CLEAR LIQUID, CHLORINE ODOR
<b>Vapor Density (AIR = 1):</b> NO DATA	<b>Vapor Pressure (mm Hg.):</b> NO DATA
<b>pH Range:</b> 12.5 - Above	<b>Partition Coefficient:</b> NO DATA
<b>Decomposition Temp:</b> NO DATA	<b>Auto-Ignition Temp:</b> NO DATA
<b>Lower Explosive Limit:</b> N/A	<b>Upper Explosive Limit:</b> N/A
<b>Specific Gravity (H2O = 1):</b> 1.21	
<b>Other Information:</b> THIS PRODUCT CONTAINS PHOSPHATES.	

## X. Stability and Reactivity:

### Stability:

STABLE

### Conditions to Avoid:

AVOID CONTACT WITH ACIDS AND ORGANIC COMBUSTIBLE AGENTS.

### Incompatible Materials:

ALL ORGANIC COMPOUNDS, ESPECIALLY NITROGEN AGENTS, REDUCING AGENTS, OXIDIZABLE OR COMBUSTIBLE ORGANIC MATERIAL, ACIDS, AND ALKALI.

### Hazardous Decomposition Products:

EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

### Possibility of Hazardous Reactions:

BILLOWING WHITE SMOKE MAY 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)

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DOT Hazard Class: 8

DOT Subsidiary Hazard Class: Not Available

UN/NA#: NA 1760

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:**

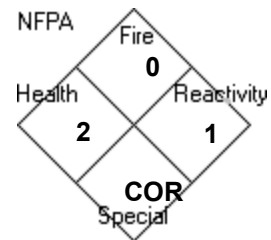
Chemical State:

 Liquid Gas Solid

Chemical Type:

 Pure Mixture

Hazard Category:

 Acute Chronic Fire Pressure Reactive**Additional Manufacturer Warnings:**

Not Available

<b>2</b>	Health
<b>0</b>	Flammability
<b>1</b>	Physical Hazard
<b>D</b>	Pers. Protection

**Additional Product Information:**

CHLORINATED LIQUID DISHMACHINE LIQUID