

# 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:** PIONEER LIQUID  
**MSDS No.:** 213

**Issue Date:** 05/17/2007  
**Supersedes Date:** 07/18/2002

## 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:

Chemical Name	CAS No.	% Range	Trade Secret
Diphosphoric acid, tetrapotassium salt	7320345	10-20	
PSRN57948000-5031P	TradeSecret	10-20	
Sodium metasilicate	6834920	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.

### Note to Physicians:

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

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## V. Fire Fighting Measures:

### Suitable Extinguishing Media:

DRY CHEMICAL, WATERFOG, CO<sub>2</sub>, 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:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
PSRN57948000-5031P	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	Not Available
Water	Not Available	Not Available	Not Available
Diphosphoric acid, tetrapotassium salt	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	Not Available
Sodium metasilicate	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	Not Available

### 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.

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## IX. Physical and Chemical Properties:

**Boiling Point:** 122°C

**Boiling Range:** NO DATA

**Solubility In Water:** EXCELLENT

**Flash Point:** N/A

**Odor Threshold:** NO DATA

**Vapor Density (AIR = 1):** NO DATA

**pH Range:** 12.5 - Above

**Decomposition Temp:** NO DATA

**Lower Explosive Limit:** N/A

**Specific Gravity (H2O = 1):** 1.28

**Other Information:** THIS PRODUCT CONTAINS PHOSPHATES.

**Melting Point:** NO DATA

**Freezing Point:** -5°C

**Evaporation Rate (Butyl Acetate = 1):** NO DATA

**Flash Point Method:** N/A

**Appearance and Odor:** CLEAR LIQUID, NO ODOR

**Vapor Pressure (mm Hg.):** NO DATA

**Partition Coefficient:** NO DATA

**Auto-Ignition Temp:** NO DATA

**Upper Explosive Limit:** N/A

## X. Stability and Reactivity:

### Stability:

STABLE

### Conditions to Avoid:

AVOID CONTACT WITH ALUMINUM, ZINC, MAGNESIUM, COPPER. EXPLOSIVE HYDROGEN GAS CAN BE RELEASED.

### Incompatible Materials:

DO NOT MIX WITH OTHER ALKALIS OR ACIDS.

### Hazardous Decomposition Products:

MILD DECOMPOSITION CAN RESULT GIVING OFF HYDROGEN.

### 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:** N/A

**DOT Hazard Class:** Not Available

**UN/NA#:** Not Available

### Transportation Information:

NOT DOT REGULATED

**DOT Subsidiary Hazard Class:** Not Available

**Packing Group:** Not Available

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**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

2	Health
0	Flammability
1	Physical Hazard
C	Pers. Protection

**Additional Product Information:**

Not Available