

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, 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:

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