

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: SHIELD
MSDS No.: 672

Issue Date: 03/15/2007
Supersedes Date: 07/03/2002

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:

PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. MEASURES AGAINST CIRCULATORY SHOCK, RESPIRATORY DEPRESSION AND CONVULSIONS MAY BE NEEDED.

Potential Environmental Effects

NONE KNOWN

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Iodine	7553562	0-10	
Phosphoric acid	7664382	10-20	
Water	7732185	50-60	

IV. First Aid Measures:

Emergency and First Aid Procedures:

FOR SKIN, WASH WITH SOAP AND WATER FOR 3-5 MINUTES. RINSE WITH WATER.
 FOR EYES, FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN. CONTINUE TO FLUSH WITH WATER UNTIL MEDICAL ATTENTION IS RECEIVED.
 IF INGESTED, DRINK LARGE VOLUMES OF WATER FOLLOWED BY MILK. THEN ADMINISTER MILK OF MAGNESIA (APPROXIMATELY 2 TABLESPOONS). IF VOMITING OCCURS SPONTANEOUSLY, ADMINISTER FLUID REPEATEDLY. GIVE MILK OR BEATEN EGGS EVERY ONE TO TWO HOURS.

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:

WATER, CARBON DIOXIDE

Unsuitable Extinguishing Media:

NONE KNOWN

Products of Combustion:

MAY EMIT TOXIC FUMES OF IODINE AND PHOSPHORUS OXIDES WITH HIGH HEAT.

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 SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN.
FOR LARGE SPILL, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH OF 7.0) WITH SODIUM THIOSULFATE OR SODIUM SULFATE.

Other Information:

Not Available

VII. Handling and Storage:

Handling Precautions:

EMPTY DRUMS MUST BE TREATED AS HAZARDOUS BECAUSE OF RESIDUES. STORE IN A DRY COOL PLACE. KEEP CONTAINER CLOSED.

Storage Precautions:

AVOID MIXING WITH OTHER CHEMICALS. DO NOT STORE NEAR BLEACH.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Phosphoric acid	1mg/m3	1mg/m3	Not Available
Water	Not Available	Not Available	Not Available
Iodine	0.1ppm	0.1ppm	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, 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.

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IX. Physical and Chemical Properties:

Boiling Point: N/A

Boiling Range: N/A

Solubility In Water: COMPLETE

Flash Point: N/A

Odor Threshold: NO DATA

Vapor Density (AIR = 1): N/A

pH Range: 0 - 2

Decomposition Temp: NO DATA

Lower Explosive Limit: 0.00%

Specific Gravity (H2O = 1): 1.12

Other Information: THIS PRODUCT CONTAINS PHOSPHATES
DETERGENT - SANITIZER

Melting Point: N/A

Freezing Point: 0°C

Evaporation Rate (Butyl Acetate = 1): 1

Flash Point Method: N/A

Appearance and Odor: RED-BROWN LIQUID, IODINE ODOR

Vapor Pressure (mm Hg.): 5.8

Partition Coefficient: NO DATA

Auto-Ignition Temp: NO DATA

Upper Explosive Limit: 0.00%

X. Stability and Reactivity:

Stability:

VERY STABLE

Conditions to Avoid:

NONE KNOWN

Incompatible Materials:

AVOID CONTACT WITH BLEACHES, REDUCING AGENTS, OR ALKALIES STRONG DECOMPOSITION REACTION CAN RESULT.

Hazardous Decomposition Products:

MAY GIVE OFF IODINE VAPORS WITH HIGH TEMPERATURES.

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 SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE DOWN DRAIN.
FOR LARGE SPILL, DIKE, COLLECT AND ADD SLOWLY TO A LARGE VOLUME OF COOL WATER WITH CONSTANT STIRRING. THEN SLOWLY NEUTRALIZE (pH OF 7.0) WITH LIMESTONE OR SODA ASH. DISPOSE DOWN DRAIN AFTER APPROVAL OF THE APPROPRIATE AUTHORITIES. CLEAN AND NEUTRALIZE ALL AREAS OF CONTACT.

XIV. Transport Information:

Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC

DOT Hazard Class: 8

UN/NA#: 3264

Transportation Information:

UN 3264

DOT HAZARD CLASS: II

LABEL: CORROSIVE

PG: II

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC

DOT Subsidiary Hazard Class: Not Available

Packing Group: II

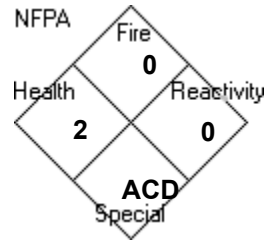
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XV. Regulatory Information:

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
0	Physical Hazard
D	Pers. Protection

Additional Product Information:

IODOPHOR CLEANER DISINFECTANT