



(HAZARDS IDENTIFICATION - Continued)

Potential Health Effects

INHALATION

Causes irritation.

EYE CONTACT

Causes burns.

SKIN CONTACT

Causes burns.

INGESTION

May cause gastrointestinal irritation.

TARGET ORGANS

Eyes, skin, gastrointestinal system, and respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure may aggravate existing respiratory conditions or dermatitis.

POTENTIAL ENVIRONMENTAL EFFECTS

No adverse effects have been noted.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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FIRST AID MEASURES  
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First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

## (FIRST AID MEASURES - Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

## Notes to Physicians

Treat symptomatically as indicated by the condition of the patient.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Flash Point : Not Applicable  
Autoignition : Not Available  
Flammable limits in Air, % by Volume  
LEL : Not Applicable  
UEL : Not Applicable

## Unusual Fire and Explosion Hazards

Contact with reducing agents, wood, paper, or other combustibles can cause fire.

## Hazardous Combustion Products

Burning may produce toxic iodine vapors.

Do not use carbon dioxide or other gas-filled fire extinguishers. Flood with water or use a water fog.

## Extinguishing Media

Deluge with water.

## Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus (SCBA) and full protective equipment. Flood with water.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

## Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. Comply with Federal, State, and local regulations for reporting releases.

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HANDLING AND STORAGE  
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## Handling (Personnel)

Avoid contact with eyes, skin or clothing. Use with sufficient ventilation to keep employee exposure below recommended limits. Wash thoroughly after handling. Wash clothing after use.

## Handling (Physical Aspects)

Keep container tightly closed.

## Storage

Store in original container. Store in a cool, dry, well-ventilated area. Store between 40-90 F (4-32 C).

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation.

## Personal Protective Equipment

## RESPIRATORY PROTECTION

No respiratory protection is required when this material is handled under proper ventilation, such as a wet bench or fume hood. If proper ventilation is not available or when in doubt of the atmospheric concentration, use a supplied air respirator. Consult 29 CFR 1910.134 regarding use of respirators.

## PROTECTIVE CLOTHING

Take all precautions to prevent skin contact. Wear Nitrile, Neoprene or Latex clothing and gloves, and chemical resistant boots when there is a probability of liquid contact.

## EYE/FACE PROTECTION

Use chemical goggles.

## Exposure Guidelines

Applicable Exposure Limits  
Iodine

## (Applicable Exposure Limits - Continued)

PEL (OSHA) : 0.1 ppm, 1 mg/m3, Ceiling  
TLV (ACGIH) : 0.01 ppm, A4, 8 Hr. TWA  
STEL 0.1 A4  
Notice of Intended Changes (2007)  
Iodides  
0.1 mg/m3, 8 Hr. TWA, A4  
AEL \* (DuPont) : None Established

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Boiling Point : 212 F (100 C)  
Vapor Pressure : Not Available  
Vapor Density : >1 (Air=1.0)  
Evaporation Rate : Not Available  
Solubility in Water : Not Available  
pH : 0.9-1.1  
Odor : None.  
Color : Clear.  
Specific Gravity : 1.05-1.08 @ 25 C (77 F)  
Form : Liquid.

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

Reducing agents, wood, and paper.

## Decomposition

Decomposition Products: Iodine vapors

## Polymerization

Will not normally occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

## INHALATION

No information available.

## EYE CONTACT

No information available.

## SKIN CONTACT

LD50, rabbit: >2000 mg/kg, not harmful.  
Considered corrosive from in vitro assay results.

## INGESTION

LD50, rabbit: >2000 mg/kg, not harmful. Causes irritation.

## GENOTOXICITY

Not mutagenic in bacterial cells in culture.

## TARGET ORGANS

Eyes, skin, gastrointestinal tract, and respiratory tract.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

No information is available.

## Aquatic Toxicity

Not expected to be harmful if adequate pH is maintained.

## Fate

Expected to react readily with organic matter in soil and water. Will leach readily in soil. Not expected to evaporate from water or bioconcentrate in aquatic organisms.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Incineration at a facility with proper Federal and State issued permits is the recommended method for disposal.

## Container Disposal

Observe all label warnings. Empty containers may contain hazardous residue. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

## (DISPOSAL CONSIDERATIONS - Continued)

Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR, Parts 261 and 268 for guidance on disposal.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT/IMO/IATA  
UN No. : UN 3264  
Proper Shipping Name : Corrosive Liquid, Acidic, Inorganic,  
N.O.S  
(Contains Periodic Acid)  
Hazard Class : 8  
Packing Group : III

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REGULATORY INFORMATION  
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## # U.S. Federal Regulations

This product complies with TSCA inventory reporting requirements.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories: Acute, Reactive

313: This product does not contain substances which are subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT)  
Not reportable.

We recommend you contact local authorities to determine if there may be other local reporting requirements.

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OTHER INFORMATION  
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## NFPA, NPCA-HMIS

NFPA Rating  
Health : 1  
Flammability : 0  
Reactivity : 0

(Continued)

Specific Hazard : Oxidizer

## Additional Information

This material is for industrial use. Use only  
under the supervision of a technically qualified individual.

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The data in this Material Safety Data Sheet relates only to the  
specific material designated herein and does not relate to use in  
combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator  
Telephone : (757)686-8663 OR (919)248-5027

# Indicates updated section.

This information is based upon technical information believed to be  
reliable. It is subject to revision as additional knowledge and  
experience is gained.

End of MSDS