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## II. HEALTH HAZARD INFORMATION

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### **EMERGENCY AND FIRST AID PROCEDURES**

#### **EYES:**

OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY THEN SEEK MEDICAL ATTENTION. IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes forcibly holding lids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within one (1) minute is essential to achieve maximum effectiveness. SEEK MEDICAL ATTENTION IMMEDIATELY.

#### **SKIN:**

SEEK MEDICAL ATTENTION IMMEDIATELY. Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. CONTINUE TO FLUSH UNTIL MEDICAL ATTENTION ARRIVES. Discard non-rubber shoes. Wash clothing before reuse.

#### **INHALATION:**

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, administer artificial resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

#### **INGESTION:**

DO NOT INDUCE VOMITING. This material is not soluble. DO NOT GIVE FLUIDS. If spontaneous vomiting is inevitable, PREVENT ASPIRATION by keeping the victims head below the knees. GET IMMEDIATE MEDICAL ATTENTION. A qualified physician can perform gastric lavage only when the airway (trachea) has been secured to prevent aspiration.

### **ROUTES OF EXPOSURE**

#### **INHALATION:**

Inhalation of vapors, mist or liquid may cause irritation to the mucous membranes of the nose and throat and can produce serious chemical burns.

#### **SKIN:**

Exposure to vapor, mist or liquid may irritate skin and can produce serious burns.

#### **EYE CONTACT:**

May irritate eyes and can produce chemical burns.

#### **INGESTION:**

Can cause irritation and burning of the mouth, throat and gastrointestinal tract.

### **EFFECTS OF OVEREXPOSURE**

#### **ACUTE:**

Irritating and corrosive to the eyes, skin, respiratory and digestive tracts.

#### **CHRONIC:**

No known chronic effects.

#### **TOXICOLOGY DATA:**

Acute Oral LD50 (rat) no data available

#### **SYNERGISTIC MATERIALS:**

Not Applicable.

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### III. IMPORTANT COMPONENTS

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**CAS NUMBER / NAME**

3991-73-9 Phosphoric acid, mono-octyl ester

**EXPOSURE LIMITS**

PEL: Not established

TLV: Not established

**COMMON NAMES:**

none

**Listed On (List Legend Below):**

04

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**PERCENTAGE**

VOL

WT

20-50

3115-39-7 Phosphoric acid, di-octyl ester

**EXPOSURE LIMITS**

PEL: Not Established

TLV: Not Established

**COMMON NAMES:**

none

**Listed On (List Legend Below):**

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**PERCENTAGE**

VOL

WT

40-75

3921-30-0 Phosphoric acid, decyl ester

**EXPOSURE LIMITS**

PEL: Not Established

TLV: Not Established

**COMMON NAMES:**

none

**Listed On (List Legend Below):**

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**PERCENTAGE**

VOL

WT

40-75

7795-87-1 Phosphoric acid, di-decyl ester

**EXPOSURE LIMITS**

PEL: Not Established

TLV: Not Established

**COMMON NAMES:**

none

**Listed On (List Legend Below):**

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**PERCENTAGE**

VOL

WT

40-75

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7664-38-2 Phosphoric acid

**EXPOSURE LIMITS**

PEL: 1 mg/m<sup>3</sup>, TWA

STEL 3 mg/m<sup>3</sup>

TLV: 1 mg/m<sup>3</sup>, TWA

STEL 3 mg/m<sup>3</sup>

**PERCENTAGE**

VOL

WT

0-5

**COMMON NAMES:**

ORTHOPHOSPHORIC ACID

**Listed On (List Legend Below):**

02, 03, 05, 06, 07, 08, 09, 10, 11

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All components of this product that are required to be on the TSCA Inventory are listed on the inventory.

Not listed as carcinogen - IARC, NTP, OSHA

**LIST LEGEND**

01 New Jersey Right to Know Haz. Substance	07 CERCLA Hazardous Substance
02 Canadian HMIS – disclose at 1%	08 SARA Title Section 313 Toxic Chemical
03 DOT Hazardous Material	09 Massachusetts Substance List
04 TSCA PAIR Substance	10 New Jersey Right to Know – Special Health Haz.
05 CWA Section 311 Hazardous Substance	11 PA Haz. Substance – Environmental Hazard
06 NIOSH Recommendation Substance	

**IV. FIRE AND EXPLOSION DATA**

FLASH POINT: >200°C (392°F)

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS IN AIR, % BY VOLUME - UPPER: Not Applicable

LOWER: Not Applicable

**EXTINGUISHING MEDIA:**

Use dry chemical, foam, carbon dioxide or water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:**

In fire conditions wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARD:**

Under fire conditions, will liberate toxic and corrosive oxides of phosphorus.

**SENSITIVITY TO MECHANICAL IMPACT:**

Not Available.

**SENSITIVITY TO STATIC DISCHARGE:**

Not Available.

**V. SPECIAL PROTECTION**

**VENTILATION REQUIREMENTS:**

Provide good general room ventilation plus local exhaust at points of emission.

### **SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**

#### **RESPIRATORY:**

NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur.

#### **EYE:**

Wear chemical safety goggles plus full face shield to protect against splashing when appropriate.

#### **GLOVES:**

Wear chemical resistant gloves such as neoprene, rubber or vinyl.

#### **OTHER CLOTHING AND EQUIPMENT:**

Eyewash facility and emergency shower should be in close proximity. Impervious clothing and rubber boots should be worn for splash protection.

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### **VI. PHYSICAL DATA**

<b>APPEARANCE AND ODOR:</b>	Colorless to light yellow liquid. Slight Decyloctyl Alcohol odor
<b>BOILING POINT @ 760 mm Hg:</b>	No Data
<b>FREEZING POINT:</b>	No Data
<b>VAPOR PRESSURE:</b>	No Data
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	0.99-1.01
<b>SOLUBILITY IN H<sub>2</sub>O % BY WT:</b>	Insoluble
<b>VAPOR DENSITY (Air=1):</b>	No Data
<b>ODOR THRESHOLD (ppm):</b>	No Data
<b>pH:</b>	2 @ 10 GM/L
<b>EVAPORATION RATE:</b>	No Data
<b>COEFFICIENT WATER/OIL DISTRIBUTION:</b>	No Data

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### **VII. REACTIVITY DATA**

#### **CONDITIONS CONTRIBUTING TO INSTABILITY:**

Stable under normal conditions. Avoid exposure to heat or to most metals or plastics, especially at elevated temperatures. Thermal degradation occurs above 257 °F.

#### **INCOMPATIBILITY:**

Reacts with alkalis producing heat. Reacts with many metals such as Aluminum and Zinc liberating flammable hydrogen gas.

#### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal degradation occurs above 257°F, producing oxides of phosphorus.

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**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:**

Material is not known to polymerize.

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**VIII. HANDLING AND STORAGE**

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**HANDLING AND STORAGE PRECAUTIONS:**

Store away from heat and separate from alkalies, aluminum, zinc and other metals. Protect from atmospheric moisture. Storage areas for drummed material should have adequate drainage. Storage tanks should be vented and diked. **FOR INDUSTRIAL USE ONLY.**

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**IX. ENVIRONMENTAL PROCEDURES**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Soak up with vermiculite, sand, earth or other absorbent material and place in marked lined steel container for disposal. Neutralize with soda ash. Flush spill area with large quantities of water. Pump large spills into marked containers for disposal or reclamation.

**WASTE DISPOSAL METHOD:**

Product should be completely removed from container. Material that cannot be used or chemically reprocessed should be disposed of in accordance with all local, state and federal regulations. Incinerate in RCRA permitted equipment designed to handle oxides of phosphorus as combustion products or send to a waste disposal firm. Empty containers should be disposed of in a manner meeting government regulations.

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**X. ADDITIONAL INFORMATION**

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

This product contains a toxic chemical or chemicals subject to the reporting requirements of SECTION 313 of TITLE III of the SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 and 40 CFR PART 372. (See Section III, List Legend 08).

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## **XI. PREPARATION INFORMATION**

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For additional Non-Emergency health, safety or environmental information telephone (716) 773-8438, or write to:

IsleChem, LLC  
2801 Long Road  
Grand Island, NY 14072

**For Emergencies: 24 HOUR EMERGENCY PHONE: 1-800-424-9300**

**To request an MSDS: 716-773-8438**

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## **WARNING LABEL INFORMATION**

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**SIGNAL WORD: DANGER**

**STATEMENT OF HAZARDS:**

LIQUID CORROSIVE  
CAUSES IRRITATION OR BURNS TO THE SKIN, EYES, RESPIRATORY AND DIGESTIVE TRACTS.

**PRECAUTIONARY STATEMENTS:**

Keep container closed.  
Insure adequate ventilation or use an approved respirator.  
Avoid breathing vapor.  
Do not get in eyes, on skin, on clothing.  
Wash thoroughly after handling.  
Use goggles, impervious clothing and rubber shoes.  
Reacts with aluminum, zinc, and other metals liberating flammable hydrogen gas.

**FIRST AID:**

**FOR EYES:**

OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY THEN SEEK MEDICAL ATTENTION. IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes forcibly holding lids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within one (1) minute is essential to achieve maximum effectiveness.

**FOR SKIN:**

SEEK MEDICAL ATTENTION IMMEDIATELY. Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. CONTINUE TO FLUSH UNTIL MEDICAL ATTENTION ARRIVES. Discard non-rubber shoes. Wash clothing before reuse.

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**IF INHALED:**

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

**IF SWALLOWED:**

DO NOT INDUCE VOMITING. This material is not soluble. DO NOT GIVE FLUIDS. If spontaneous vomiting is inevitable, PREVENT ASPIRATION by keeping the victims head below the knees. GET IMMEDIATE MEDICAL ATTENTION. A qualified physician can perform gastric lavage only when the airway (trachea) has been secured to prevent aspiration.

**IN CASE OF:**

**SPILL OR LEAK:**

Soak up with vermiculite, sand, earth or other absorbent material and place in marked metal container for disposal. Neutralize with soda ash. Flush spill area with large quantities of water.

**FIRE:**

Use dry chemical, foam, carbon dioxide or water spray. Use air supplied respirator and full protection equipment. Fire will liberate toxic gases.

**HANDLING AND STORAGE:**

Store in a cool, dry place separate from alkalis, aluminum, zinc and other metals.

**DISPOSAL:**

Product should be completely removed from container. Material that cannot be used or chemically reprocessed should be disposed of in accordance with all local, state and federal regulations. Incinerate in equipment designed and permitted to handle oxides of phosphorus as combustion products or send to a waste disposal firm. Empty containers should also be disposed of in a manner meeting government regulations.

**INFORMATION REQUIRED BY FEDERAL, STATE OR LOCAL REGULATIONS:**

This product contains:

<b>CAS #</b>	<b>Name</b>
3991-73-9	Phosphoric acid, mono-octyl ester
3115-39-7	Phosphoric acid, di-octyl ester
3921-30-0	Phosphoric acid, decyl ester
7795-87-1	Phosphoric acid, di-decyl ester
7664-38-2	Phosphoric acid

**HMIS RATING SYSTEM: HEALTH 3 FLAMMABILITY 1 REACTIVITY 0**

**FOR INDUSTRIAL USE ONLY**

For additional information, see Material Safety Data Sheet (MSDS) for this product.