

**Iodis**

Revision: 06/23/2015

Supersedes Revision: 01/23/2015

**1. Product and Company Identification**

**Product Code:** 333300  
**Product Name:** Iodis  
**Company Name:** Preserve International  
PO Box 17003  
Reno, NV 89511  
**Phone Number:** (209)664-1607  
**Web site address:** www.preserveinternational.com  
**Emergency Contact:** ChemTEL (800)255-3924  
**Information:** (209)664-1607

**2. Hazards Identification****Skin Corrosion/Irritation, Category 1B****Acute Toxicity: Oral, Category 5****Skin Corrosion/Irritation, Category 2****Serious Eye Damage/Eye Irritation, Category 2A****Aquatic Toxicity (Acute), Category 3****Acute Toxicity: Skin, Category 4****Acute Toxicity: Inhalation, Category 4****Aquatic Toxicity (Acute), Category 1****Danger****Warning****Warning****GHS Hazard Phrases:**

Causes severe skin burns and eye damage.  
May be harmful if swallowed.  
Harmful to aquatic life.  
Harmful in contact with skin.  
Harmful if inhaled.

**GHS Precaution Phrases:**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Take off contaminated clothing and wash it before reuse.  
Avoid release to the environment.  
Use only outdoors or in a well-ventilated area.  
Avoid breathing dust/fume/gas/mist/vapors/spray.

**GHS Response Phrases:**

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Specific treatment see section 4 on this label.  
Call a POISON CENTER/doctor if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs, get medical advice/attention.  
If eye irritation persists, get medical advice/attention.

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**GHS Storage and Disposal****Phrases:**

Collect spillage.

Store locked up.

Dispose of contents/container as per local regulations.

**Potential Health Effects  
(Acute and Chronic):**

Some references (e.g. Dreisbach's Handbook) say that iodine and iodine compounds are potent sensitizers and that repeated contact may cause sensitivity dermatitis, laryngeal edema, serum sickness with lymph node enlargement, and joint pain and swelling. Iodine in very small quantities is critical for proper function of the thyroid. If deficient, can cause goiter, an enlargement of the thyroid gland.

Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.

**Inhalation:**

Causes chemical burns to the respiratory tract. Causes respiratory tract irritation. Harmful if inhaled. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

**Skin Contact:**

Causes skin burns. Causes skin irritation. Harmful if absorbed through the skin. May cause severe irritation and possible burns.

**Eye Contact:**

Causes eye burns. Causes severe eye irritation. Vapors may cause eye irritation.

**Ingestion:**

Causes gastrointestinal tract burns. Harmful if swallowed. May cause burns to the digestive tract. Iodine is an easily oxidizable substance.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration	
7664-38-2	Phosphoric acid {Orthophosphoric acid}	24.0 %	
NA	( Trade Secret )	6.563 %	
7553-56-2	Iodine	1.75 %	
NA	( Trade Secret )	1.313 %	

**4. First Aid Measures****Emergency and First Aid****Procedures:****In Case of Inhalation:**

Remove from exposure and move to fresh air immediately. Treat symptomatically. Get medical attention. If breathing is difficult, give oxygen. If breathed in, move person into fresh air. Consult a physician.

**In Case of Skin Contact:**

Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician. Wash clothing before reuse.

**In Case of Eye Contact:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**In Case of Ingestion:**

Get medical aid immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. Consult a physician. POISON material. If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel.

**Signs and Symptoms Of  
Exposure:**

Nausea. Headache. Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Note to Physician:**

Treat symptomatically and supportively. Consult a physician. Move out of dangerous

area.

## 5. Fire Fighting Measures

**Flash Pt:****Explosive Limits:**

LEL:

UEL:

**Autoignition Pt:****Suitable Extinguishing Media:** Use foam, dry chemical, or carbon dioxide. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Wear self contained breathing apparatus for fire fighting if necessary. Vapors may accumulate in confined spaces.**Flammable Properties and****Hazards:**

## 6. Accidental Release Measures

**Steps To Be Taken In Case  
Material Is Released Or  
Spilled:**

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment. Personal precautions. Use personal protective equipment. Avoid breathing vapors, mist or gas. Environmental precautions.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Soak up with inert absorbent material and dispose of as hazardous waste. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## 7. Handling and Storage

**Precautions To Be Taken in  
Handling:**

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Keep container tightly closed.

**Precautions To Be Taken in  
Storing:**

Store in a cool, dry place. Store in a tightly closed container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid {Orthophosphoric acid}	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	
NA	( Trade Secret )			
7553-56-2	Iodine	CEIL: 0.1 ppm	CEIL: 0.1 ppm	
NA	( Trade Secret )			

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**Respiratory Equipment  
(Specify Type):**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Eye Protection:

Wear chemical splash goggles. Safety glasses with side-shields conforming to EN166. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

**Other Protective Clothing:**

Wear appropriate protective clothing to prevent skin exposure. Impervious clothing.

**Engineering Controls  
(Ventilation etc.):**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Work/Hygienic/Maintenance Practices:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

**Physical States:**            ☐ Gas      ☒ Liquid      ☐ Solid

**Appearance and Odor:** Reddish, Brown Liquid.  
Iodine.

**Melting Point:**

### Boiling Point:

**Autoignition Pt:**

**Flash Pt:**

**Explosive Limits:** LEL: UEL:

**Specific Gravity (Water = 1):** 1.06 - 1.10

**Density:** 8.83 - 9.16 LB/GAL

**Vapor Pressure (vs. Air or mm Hg):**

**Vapor Density (vs. Air = 1):**

**Evaporation Rate:**

**Solubility in Water:** Complete

**pH:** 0.50 - 1.10

**Percent Volatile:**

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [X]

**Conditions To Avoid -** Incompatible materials, Metals. Excess heat, Heat, flames and sparks. dust generation.

**Instability:**

<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, Reacts with most common metals to produce hydrogen gas. Is corrosive to many materials including leather, rubber, and many organics. Strong reducing agents, Ammonia, Acetylene, acetaldehyde, powdered aluminum, active metals, liquid chlorine, fluorine, carbides.
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**Hazardous Decomposition or Byproducts:** Phosphine, oxides of phosphorus, hydrogen gas. formed under fire conditions. Carbon oxides,

Hydrogen iodide.

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**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

**Toxicological Information:** Epidemiology: No data available.  
Teratogenicity: No data available.  
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: Teratogenicity: There are many reported cases of women taking iodine-containing drugs during pregnancy and having newborns with congenital goiter, a potentially life-threatening condition for the fetus or infant.  
Reproductive effects have been reported in animals.  
No information found.

**Irritation or Corrosion:** No data available.

**Carcinogenicity/Other Information:** CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 7553-56-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid {Orthophosphoric acid}	n.a.	n.a.	n.a.	n.a.
NA	( Trade Secret )	n.a.	n.a.	n.a.	n.a.
7553-56-2	Iodine	n.a.	n.a.	n.a.	n.a.
NA	( Trade Secret )	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.  
Other: Do not empty into drains. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

**Bioaccumulative Potential:** Indication of bioaccumulation.

**Mobility in Soil:** No data available.

### 13. Disposal Considerations

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed. Product.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive liquids, n.o.s. (Phosphoric acid)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN1760

**Packing Group:** III



### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	Phosphoric acid {Orthophosphoric acid}	No	Yes 5000 LB	No
NA	( Trade Secret )	No	No	No
7553-56-2	Iodine	No	No	No
NA	( Trade Secret )	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7664-38-2	Phosphoric acid {Orthophosphoric acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1805; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
NA	( Trade Secret )	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
7553-56-2	Iodine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1026; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes
NA	( Trade Secret )	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS:



# SAFETY DATA SHEET

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Yes; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
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### Regulatory Information:

Iodis - This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER Corrosive. Causes eye damage and skin irritation. Harmful if swallowed. Do not get in eyes, on skin or on clothes. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Avoid contamination of food and foodstuffs. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse.

## 16. Other Information

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### Additional Information About

### This Product:

### Company Policy or

### Disclaimer:

Preserve International believes that the data contained herein is factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted. However, the information presented is not to be taken as a warranty or representation for which Preserve International assumes legal responsibility. This data is offered solely for your information in accordance with applicable Federal, State, and Local laws and regulations.