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CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

## Section I - Product Identification

An aqueous solution of Iodine and potassium iodide.

## Section II - Hazards Identification

Warning. Harmful if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed, rinse mouth with water and call a poison center.

### Safety Ratings

*Health:* Moderate *Flammability:* None *Reactivity:* Slight *Contact:* Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

*Storage:* General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 1



### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other iodine products.

*Inhalation:* May be irritating.

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

*Skin contact:* Not normally a problem.

*Eye contact:* May be irritating.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown.

## Section III - Composition/Information on Components

| Ingredients      | CAS#      | OSHA Pel        | ACGIH TLV              | Other Limits | %       |
|------------------|-----------|-----------------|------------------------|--------------|---------|
| Iodine           | 7553-56-2 | 0.1 ppm Ceiling | 0.1 ppm (STEL) Ceiling |              | 5% w/v  |
| Potassium iodide | 7681-11-0 |                 |                        |              | 10% w/v |

## Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not a fire Hazard.

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive iodine vapor.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 101 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* An opaque purple solution with the characteristic odor of iodine.

*Density:* About 1.1 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

| <u>Ingredient</u> | <u>Known Carcinogenicity?</u> | <u>NTP?</u> | <u>Anticipated?</u> | <u>IARC Category</u> |
|-------------------|-------------------------------|-------------|---------------------|----------------------|
| Iodine            | No                            | No          | No                  | None                 |
| Potassium iodide  | No                            | No          | No                  | None                 |

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## Section XII - Ecological Information

Environmental Fate: Unknown

Environmental Toxicity: Unknown

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### Section XIII - Disposal Considerations

Not usually restricted. Local governments may restrict the amounts of iodine that may be flushed down drain. Were it is restricted, Iodine solutions may usually be neutralized with thiosulfate and flushed down the drain. Dispose of contents and container in accordance with all government regulations.

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### Section XIV - Transportation information

Not regulated.

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### Section XV - Regulatory Information

#### Chemical Inventory Status

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| <u>Ingredient</u> | <u>TSCA</u> | <u>EC</u> |
|-------------------|-------------|-----------|
| Iodine            | Yes         | Yes       |
| Potassium Iodide  | Yes         | Yes       |

#### Federal, State and International Regulations

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| <u>Ingredient</u> | <u>SARA 302</u> |            | <u>SARA 313</u> |                 | <u>RCRA</u>   | <u>TSCA</u> | <u>Ca. Prop 65</u> |
|-------------------|-----------------|------------|-----------------|-----------------|---------------|-------------|--------------------|
|                   | <u>RQ</u>       | <u>TPQ</u> | <u>List</u>     | <u>Category</u> | <u>261.33</u> | <u>8(D)</u> |                    |
| Iodine            | No              | No         | No              | No              | No            | No          | No                 |
| Potassium Iodide  | No              | No         | No              | No              | No            | No          | No                 |

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No

SARA 311/312: Acute: Yes, Chronic: Yes

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### Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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