Section I - Product Identification

An aqueous solution of iodine and potassium iodide.

Section II - Hazards Identification

Overview: May be harmful if swallowed. May be irritating to skin eyes and respiratory tract.

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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS#</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine</td>
<td>7553-56-2</td>
<td>0.1 ppm Ceiling</td>
<td>0.1 ppm (STEL) Ceiling</td>
<td></td>
<td>5% w/v</td>
</tr>
<tr>
<td>Potassium iodide</td>
<td>7681-11-0</td>
<td></td>
<td></td>
<td></td>
<td>10% w/v</td>
</tr>
</tbody>
</table>

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.
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.

Section VI - Accidental Release Measures

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

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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.

Section IX - Physical and Chemical Properties

Boiling Point: 101°C
Density: About 1.1 g/ml
Vapor pressure (mm Hg): 18 @ 20°C
Evaporation Rate (water = 1): 1
Vapor Density (air = 1): 0.6
Solubility: Infinitely miscible with water
Appearance and Odor: An opaque purple solution with the characteristic odor of iodine.

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.

Section XI - Toxicological Information

None relating to normal exposure.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Known Carcinogenicity?</th>
<th>NTP?</th>
<th>Anticipated?</th>
<th>IARC Category</th>
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</thead>
<tbody>
<tr>
<td>Iodine</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>Potassium iodide</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
</tr>
</tbody>
</table>

Section XII - Ecological Information

Environmental Fate: Unknown
Environmental Toxicity: Unknown
Section XIII - Disposal Considerations

Not usually regulated. 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. Insure compliance with all government regulation.

Section XIV - Transportation information

Not regulated.

Section XV - Regulatory Information

Chemical Inventory Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TSCA</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Potassium Iodide</td>
<td>Yes</td>
<td>Yes</td>
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Federal, State and International Regulations

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>SARA 302</th>
<th>SARA 313</th>
<th>RCRA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodine</td>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Potassium Iodide</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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

Section XVI - Other Information

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

Revision Date: Apr. 21, 2014