

27120 SW 95th Avenue  
 P.O. Box 570  
 Wilsonville, OR 97070-0570  
 USA  
 (503) 570-2500

2900 Simpson Road #1  
 Richmond, BC V6X 2P9  
 CANADA  
 (604) 270-0011

380 Jefferson Blvd., Unit A  
 Warwick, RI, 02886  
 USA  
 (401) 737-0593

915 Meyerside Drive  
 Mississauga, ON L5T 1R8  
 CANADA  
 (905) 564-1032

## MATERIAL SAFETY DATA SHEET

### EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

### SECTION 1: MATERIAL INFORMATION

**Common Name:** **GRAM IODINE SOLUTION (STABILIZED)**  
**Synonyms:** Polyvinylpyrrolidone-Iodine Complex  
**Catalog Number:** R5813, R5841, R5842, R5843, R5844  
**CAS #:** N/AP  
**WARNING:** Poison

### SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u> (C <sub>6</sub> H <sub>9</sub> NO) <sub>n</sub>	<u>Approximate Concentration</u>
Polyvinylpyrrolidone	9003-39-8	Org. Polymer		11%
Potassium Iodide	7681-11-0	Inorg. Salt	KI	1.9%
Iodine	7553-56-2	Halide	I <sub>2</sub>	1.8%

### SECTION 3: PHYSICAL DATA

<b>Appearance:</b> Brown Liquid	<b>pH:</b> N/AV	<b>Vapor Density:</b> N/AV
<b>Boiling Point:</b> N/AV	<b>Solubility in Water:</b> Appreciable	<b>Flash Point:</b> N/AV
<b>Melting Point:</b> N/AV	<b>Vapor Pressure:</b> N/AV	<b>Evaporation Rate:</b> N/AV
<b>Odor:</b> Pungent	<b>Specific Gravity:</b> N/AV	

### SECTION 4: FIRE AND EXPLOSION HAZARD

**Flammable:**  
 No

**Flammable Limits:**  
 Upper: N/AP      Lower: N/AP

**Extinguish Media:**  
 Water spray, carbon dioxide, dry chemical, "alcohol" or polymer foam

**Special Hazards:**  
 Wear self-contained, positive-pressure breathing apparatus and full protective clothing

**Unusual Fire and Explosion Hazards:**  
 Emits toxic fumes under fire conditions

### SECTION 5: REACTIVITY DATA

Stable:       Unstable:

**Conditions to Avoid:**  
 Heat, sparks, open flame

**Materials to Avoid:**

- ( ) Water -
- ( ) Acids -
- ( ) Bases -
- ( ) Corrosives -
- (X) Oxidizers -
- (X) Other: Bromine Trifluoride, Chlorine Trifluoride, Fluorine Perchlorate, Magnesium, Zinc, Ammonia

**Hazardous Decomposition Products:**  
 Toxic fumes

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**SECTION 6: HEALTH HAZARD DATA**


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To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Polyvinylpyrrolidone	11%	N/AV	ORL-RAT LD50: 100 GM/KG
Potassium Iodide	1.9%	N/AV	ORL-RBT LD50: 1040 MG/KG ORL-RBT LD50: 1862 MG/KG SKN-RBT LD50: 220 MG/KG
Iodine	1.8%	N/AV	ORL-RAT LD50: 14 GM/KG ORL-RBT LD50: 10 GM/KG

**Effects of Overexposure (Acute and Chronic):**

Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting, exposure can cause; stomach pains, vomiting, diarrhea, damage to the eyes and dermatitis.

**Carcinogenicity:** These products do not contain any carcinogens at 0.1% or greater.

**First Aid Procedure:**

**Skin Contact:** Flush with copious amounts of water then wash with soap and water.  
**Eye Contact:** Flush with copious amounts of water for 15 minutes.  
**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.  
**Ingestion:** Do not induce vomiting, seek medical attention immediately.

In all cases of overexposure seek medical attention.

Wash contaminated clothing before reuse.

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**SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL**


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**Steps to be taken if Material is Released or Spilled:**

Evacuate and ventilate area. Using protective apparatus, take up with absorbant (preferably dry lime or soda ash). Wash spill site after material pick up is complete.

**Waste Disposal Method:**

Observe all local, provincial, state, and federal regulations.

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**SECTION 8: SPECIAL PROTECTION INFORMATION**


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Provide adequate general mechanical and local exhaust ventilation.  
 Avoid prolonged or repeated inhalation of vapor.  
 Protect eyes, skin, and clothing with safety goggles and gloves.  
 Wash thoroughly after handling.

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**SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS**


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Keep container tightly closed. Protect against physical damage, store in cool, dry place.

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**SECTION 10: MSDS PREPARATION AND INFORMATION**


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 Revised By: Gary Wicklund

Authorized Signature: 

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