



# LUGOL'S IODINE

## MATERIAL SAFETY DATA SHEET

**Date Issued: August 3, 2015**

**Last Date Revised: September 8, 2014**

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

### Product Identification

**Manufacturer's Name & Address:** Herbologics, Ltd.  
8345 NW 66th St., #7093  
Miami, FL 33166-2626

**Phone:** 1-305-851-2308

**Fax:** (888) 450-7909

**Product Name:** Lugol's Iodine

**Product Code:** 565

**Product Description:** A aqueous solution of iodine and potassium iodide in water.

<b>Health</b>	2
<b>Flammability</b>	0
<b>Reactivity</b>	1
<b>Physical Hazard</b>	None

### Section 1 - Shipping Data

**DOT Shipping Name:\*** Not applicable

**DOT Hazard Class:** Not applicable

**DOT Identification:** Unregulated

**Tel. # for information:** (305) 851-2308

**Prepared by:** J.C.

### Section 2 - Hazardous Ingredients / Identity Information

CHEMICAL COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV
iodine	7553-56-2	5.0% w/v	1.0 mg/m <sup>3</sup> TWA ceiling	1.0 mg/m <sup>3</sup> TWA ceiling
potassium iodide	7681-11-0	10.0% w/v	-----	-----

Questions have arisen concerning the purity and source of the raw materials used in our Lugol's. Both iodine ingredients are USP (pharmaceutical grade). The potassium iodine is made by Amphray (see [MSDS](#) -- also the Certificates of Analysis for the last two batches used: [P25407](#) and [P25309](#)) and the iodine crystal is made by Malinckrodt (see [MSDS](#)), inventory # Baker 2211, 99.8% pure, USP.

### Section 3 - Physical / Chemical Characteristics

<b>Boiling Point:</b>	101° C	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.1
<b>Vapor Pressure (mm Hg and Temperature):</b>	18 @ 20° C	<b>Evaporation Rate ( <i>n-butyl alcohol</i>= 1):</b>	1
<b>Vapor Density (AIR=1):</b>	0.6	<b>Solubility in Water:</b>	100%
<b>Appearance and Odor:</b> An opaque purple solution with the characteristic odor of iodine.			

### Section 4 - Fire and Explosion Hazard Data

**Flash Point (Method Used):** Not applicable      **Flammability Limits:** Not applicable  
**Extinguishing Media:** Not applicable  
**Special Fire Fighting Procedures:** Not applicable  
**Unusual Fire and Explosive Hazards:** Pyrolysis will release corrosive iodine vapor.

### Section 5 - Reactivity Data

**Stability:** Stable      **Conditions to Avoid:** Heat  
**Incompatibility (Materials to Avoid):** Nothing unusual.  
**Precautions to be taken in Handling and Storage:** Store at room temperature.

### Section 6 - Health Hazard Data

<b>Routes of Entry</b>	<b>Inhalation?</b> yes	<b>Skin Absorption?</b> yes	<b>Ingestion?</b> yes
<b>Carcinogenicity?</b> no	<b>NTP?</b> no	<b>IARC Monographs?</b> no	<b>OSHA Regulated?</b> no

**Health Hazards (Acute and Chronic):** Large doses of iodine cause severe vomiting, diarrhea, abdominal pain, thirst, shock, fever, delirium, stupor and death. Prolonged exposure to iodine compounds may produce iodism and deficiency of thyroid hormone.

**Signs and Symptoms of Exposure:** May cause contact dermatitis. Repeated, excessive exposure to iodine compounds may cause rash, swelling of the vocal cords, severe generalized allergic reaction, joint pain and swelling. Iodine is absorbed through intact skin.

**Medical Conditions Generally Aggravated by Exposure:** Individuals with thyroid, lung or kidney disease may wish to consult a physician before working with iodine compounds.

**Emergency and First Aid Procedures:**

*Seek medical assistance for further treatment, observation and support if necessary.*

**Eye Contact:** Flush with water at least 15 minutes and get medical attention if irritation persists.

**Skin contact:** If exposed to more than five drops, remove contaminated clothing and flush with water. Get medical attention if irritation persists.

**Ingestion:** If four drops or more are ingested at one time, immediate steps should be taken. Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

### Section 7 - Precautions For Safe Handling and Use

**Steps to be Taken In Case of Spill Or Release:** Absorb with a suitable absorbent (such as a paper towel) and dispose.

**Waste Disposal Methods:** Usually not restricted, but local ordinances vary. Iodine may often be neutralized with thiosulfate and flushed down drain with excess water. Insure compliance with all government regulations.

### Section 8- Control Measures

**Respiratory Protection (Specify Type):** Not required.

**Ventilation:** General ventilation is usually sufficient.

**Protective Gloves:** Not required.

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

**Other Protective Clothing And Equipment:** Not required.

**Hygienic Work Practices:** Wash well after handling, especially before eating and smoking.

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