Lugol's Iodine Concentrate Page 1 of 2

MSDS

Material Safety Data Sheet



24 HOUR EMERGENCY TELEPHONE NUMBER CALL CHEMTREC 1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

LUGOL'S IODINE CONCENTRATE

Product Identification

Product Name: Lugol's lodine Concentrate
Product Code: ES815, ES862

Product Description: Anaqueous solution of iodine and potassium iodide in water.

Health	2
Flammability	0
Reactivity	1
Physical Hazard	None

Section 1 - Shipping Data

DOT Shipping Name:*Not applicableTel. # for information:(610) 524-5810DOT Hazard Class:Not applicableEmergency Tel. #:(800) 424-9300DOT Identification:UnregulatedPrepared by:P.B.

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 ³ TWA ceiling	1.0 mg/m ³ TWA ceiling
potassium iodide	7681-11-0	10.0% ^{w/v}		

Section 3 - Physical / Chemical Characteristics

Azer Scientific Inc. Revised: 12 June 2009

Lugol's Iodine Concentrate Page 2 of 2

Boiling Point: 101° CSpecific Gravity ($H_20 = 1$):1.1Vapor Pressure (mm Hg and Temperature): $18 @ 20^{\circ}$ CEvaporation Rate (n-butyl alcohol= 1):1Vapor Density (AIR=1):0.6Solubility in Water:100%

Appearance and Odor: 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

Routes of Entry
Inhalation?
yes
Skin Absorption?
yes
yes

Carcinogenicity?
NTP?
IARC Monographs?
OSHA Regulated?

no no no no

Health Hazards (Acute and Chronic): Large doses of iodine cause sever 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 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: Remove contaminated clothing and flush with water. Get medical attention if irritation persists.

Ingestion: 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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