

MSDS**Material Safety Data Sheet**

AZER SCIENTIFIC

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

GRAM'S IODINE (Stabilized)

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

Product Identification																		
Product Name:	Gram's Iodine (stabilized)																	
Product Code:	ES800, ES803, ES809																	
Product Description:	A aqueous solution of iodine and potassium iodide in water.																	
<table border="1"> <tbody> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Physical Hazard</td> <td>None</td> </tr> </tbody> </table>				Health	1	Flammability	0	Reactivity	0	Physical Hazard	None							
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Physical Hazard	None																	
Section 1 - Shipping Data																		
DOT Shipping Name:*	Not applicable	Tel. # for information:	(610) 524-5810															
DOT Hazard Class:	Not applicable	Emergency Tel. #:	(800) 424-9300															
DOT Identification:	Unregulated	Prepared by:	P.B.															
Section 2 - Hazardous Ingredients / Identity Information																		
<table border="1"> <thead> <tr> <th>CHEMICAL COMPONENTS</th> <th>CAS#</th> <th>%</th> <th>OSHA PEL</th> <th>ACGIH TLV</th> </tr> </thead> <tbody> <tr> <td>PVP iodine</td> <td>25655-41-8</td> <td>< 13%</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>potassium iodide</td> <td>7681-11-0</td> <td>< 2%</td> <td>-----</td> <td>-----</td> </tr> </tbody> </table>				CHEMICAL COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV	PVP iodine	25655-41-8	< 13%	-----	-----	potassium iodide	7681-11-0	< 2%	-----	-----
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Section 3 - Physical / Chemical Characteristics																		
Boiling Point:	212° F	Specific Gravity (H₂O = 1):	~1															
Vapor Pressure (mm Hg and Temperature):	40 @ 20° C	Evaporation Rate (n-butyl alcohol= 1):	>1															
Vapor Density (AIR=1):	1	Solubility in Water:	100%															
Appearance and Odor: Reddish-brown liquid, iodine odor.																		

Section 4 - Fire and Explosion Hazard Data**Flash Point (Method Used):** Not applicable**Flammability Limits:** Not applicable**Extinguishing Media:** Water spray, dry chemical, CO2 and foam.**Special Fire Fighting Procedures:** Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.**Unusual Fire and Explosive Hazards:** None known**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?****Skin Absorption?****Ingestion?**

yes

yes

yes

Carcinogenicity?**NTP?****IARC Monographs?****OSHA Regulated?**

no

no

no

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 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:** Chemical resistant**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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