

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **Lugol's Iodine Concentrate**

*Date Prepared:* 02/15/02

*Item Number:* 6584-02D, 6584-04, 6584-16

*Emergency Phone:* 800-424-9300

### Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>		<b>NFPA</b>	
				Health	2
Iodine	5%	7553-56-2	NR	Flammability	0
Potassium Iodide	10%	7681-11-0	NR	Reactivity	0

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	212°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20°C:</i>	14	<i>Percent Volatile by Vol:</i>	2%
<i>Vapor Density (Air 1:1):</i>	1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Reddish-brown liquid, iodine odor

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* NA                      *Flammable Limits:* LEL, NA                      UEL, NA  
*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> 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 & Explosion Hazards:* Normal safety precautions.

### Section V: REACTIVITY

*Stability:* Stable                      *Material to Avoid:* Strong oxidizers, chromic anhydride, organic acids  
*Hazardous Decomposition or Byproducts:* Iodate oxides  
*Hazardous Polymerization:* Does not occur                      *Conditions to Avoid:* Excessive heat

### Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion  
*Acute:* Vapors may cause eyes, skin and respiratory irritation.  
*Chronic:* Poisoning may cause gastrointestinal disturbances, convulsions, circulatory problems, toxicity of blood and damage kidneys.  
*Carcinogenicity:* Not classified as a human carcinogen.  
*Signs/Symptoms of Exposure:* Skin and respiratory irritation.

NOTE: Product is not expected to present a health hazard if following normal good laboratory practices.

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### **Section VI: HEALTH HAZARDS**

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Rinse mouth with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### **Section VII: SAFE HANDLING**

*Chemical Release or Spill:* Isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use normal precautions for liquids. Avoid excessive heat. Use in ventilated area.

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### **Section VIII: CONTROL MEASURES**

*Respiratory Protection:* Not normally required. If used in a poorly ventilated area use under fume hood or NIOSH approved respirator.

*Ventilation:* In ventilated areas, mechanical exhaust is sufficient.

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astral Diagnostics shall not be held liable for any damage resulting from handling or contact with this product.