

MATERIAL SAFETY DATA SHEET

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Section I: IDENTIFICATION

Product Name: Gram Stain, Lugol's Iodine

Date Prepared: 02/15/02 *Date Revised*:* 09/26/06

Item Number: 400312, 400330, 400350, 400352

Emergency Phone, Infotrac: 800-535-5053

Section II: INGREDIENTS

<i>Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL</i>	<i>NFPA</i>
Iodine < 1%	7553-56-2	NR NR/0.1 ppm	Health 1
Potassium Iodide < 1%	7681-11-0	NR	Flammability 0
			Reactivity 0

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~ 212°F	<i>Specific Gravity (H₂O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20 °C:</i>	14	<i>Percent Volatile by Vol:</i>	5%
<i>Vapor Density (Air 1:1):</i>	1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & 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, 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 & Explosion Hazards: Normal safety precautions.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong oxidizers, reducing agents, acids or metals
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, blood toxicity 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.

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.

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.

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

*Change due to customer request. No substantial changes since prepared date.

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