

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 408.00

Revision Date: November 25, 2002

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### Section 1 — Chemical Product and Company Identification

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#### Iodine, Tincture

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Iodine (7553-56-2) 5%, Potassium Iodide (7681-11-0) 5%, Water (7732-18-5) 6%, and Ethyl Alcohol (64-17-5) 84%.

CAS#: None Established

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### Section 3 — Hazards Identification

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Reddish-brown liquid; odor of iodine and alcohol.  
Toxic by ingestion, inhalation, and skin absorption.  
Contains ethyl alcohol; flammable liquid. Avoid all sources of ignition.

#### FLINN AT-A-GLANCE

Health-3  
Flammability-3  
Reactivity-1  
Exposure-1  
Storage-3

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.  
Eye: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Combustible liquid.  
Contains ethyl alcohol; when heated to decomposition, emits toxic fumes of iodide.  
**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None Established

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### Section 6 — Accidental Release Measures

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Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a Flinn Chem-Saf bag. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can. Use and dispense in a hood.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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### Section 9 — Physical and Chemical Properties

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Reddish-brown liquid; odor of iodine and alcohol.

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### Section 10 — Stability and Reactivity

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This material should not be used as medication. It is sold for use as a laboratory reagent only.  
Shelf life: Good, if stored safely.

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### Section 11 — Toxicological Information

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Acute effects: Poison, irritant, nausea, dizziness, and headaches	ORL-RAT LD50: N.A.
Chronic effects: N.A.	IHL-RAT LC50: N.A.
Target organs: N.A.	SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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### Section 12 — Ecological Information

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Data not yet available.

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### Section 13 — Disposal Considerations

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Please consult with state and local regulations.  
Flinn Suggested Disposal Method 26b is one option.

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### Section 14 — Transport Information

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Shipping Name: Ethyl Alcohol  
Hazard Class: 3, Flammable liquid  
UN Number: UN1170

N/A = Not applicable

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### Section 15 — Regulatory Information

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Not listed.

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### Section 16 — Other Information

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Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

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*Flinn Is No. 1 in Safety*

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