



ELECTRO-TECHNIC PRODUCTS

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SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Spectrum Tube, Iodine (ETP Product No. 20602)

Common Name: Iodine

Recommended Use: Educational, study of spectral lines

Restrictions on Use: Use under supervision of science teacher

Manufacturer Information

Electro-Technic Products
4642 N. Ravenswood Ave
Chicago, IL 60640-4510, USA

General and Emergency Phone No.

773-561-2349

Revision Date:

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Section 2: Hazards Identification

Much of the information provided below will apply to larger quantities of IODINE. Each tube contains about 50 mg of iodine as a solid within a sealed glass tube, about 10.5 in. (27 cm) long by ½ in. (13 mm) in diameter, at a pressure of about 0.15 Torr.

Hazard Classification: Health rating: 3 – High (Life); Flammability Rating: 0 – None
Reactivity Rating 2 – Medium; Exposure Rating: 3 –High

General Statement: The iodine in each tube is poses no hazard so long as the tube is sealed.

Section 3: Composition / Information on Ingredients

CAS: 7553-56-2 **Component:** Iodine **Percent:** 100%, under low pressure.

Section 4: First-Aid Measures

Inhalation: Remove to fresh air. Seek immediate medical advice.

Skin: Wash with /soap and water for 15 minutes. Seek immediate medical advice.

Eye Contact: Flush w/water for several minutes. Then consult with medical advice.

Ingestion. Seek medical treatment.

If tube broken, treat for cuts and possible burns resulting from tube if hot.

Section 5: Fire-Fighting Measures

Recommendations for fighting fire caused by the chemical: Not considered to be a fire or explosion hazard. Use dry chemicals to extinguish surrounding fire.

Section 6: Accidental Release Measures

Recommendations for Personal Precautions and Emergency Procedures:

Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away.

Precautions for Safe Handling: Never handle tube when hot, or energized. Keep away from heat, use indoors, with approved source of power.

Conditions for Safe Storage: Store at room temperature. Protect glass from breakage.

Incompatibilities While Storing: Keep away from any chemical that might attack glass.

Section 8: Exposure Controls / Personal Protection

Component Exposure Limits: Use in an area providing normal ventilation. Never use in a confined space **Personal Protection:** Wear safety glasses when using this product. Observe normal laboratory procedures.

Section 9: Physical and Chemical Properties

Physical State: Black flakes, metallic like

Boiling Point: 185.24 °C

Melting Point: 113.5 °C

Specific Gravity: 4.98

Molecular Weight: 253.8

Molecular Formula: I₂

Section 10: Stability and Reactivity

Reactivity: Avoid contact with aluminum. **Chemical Stability:** Corrodes steel conditions. **Conditions to Avoid:** Avoid open flames, mechanical stress on glass

Section 11/12: Toxicological/Ecological Information

Toxicological information exists concerning for larger amounts of iodine than are contained in this product. Consult this data for further information. No ecological data is available at this time.

Section 13: Disposal Considerations

Disposal Methods: Dispose of in accordance with all applicable local regulations.

Sections 14: Transport Information

If transporting this product, consult with your local carrier for further information. Over pack to prevent the tube from breakage during shipment.

Sections 15: Regulatory Information

Considerable information exists concerning this subject. It may vary from one location to another. Consult this data for further information.

Section 16: Other Information

The above information is based upon the best information available to us. Electro-Technic Products shall not be held liable for any claims, losses or damages resulting from reliance on this information. Users should do their own research to determine the suitability of the information for their own use of this product.