

MATERIAL SAFETY DATA SHEET

1X 160
July 1, 1986

SECTION I NAME

Product	IODINE-POTASSIUM IODIDE, STARCH TEST SOLUTION
Chemical Synonyms	I/I Solution, Starch Test
Formula	I/KI
Unit(s) Size	100 ml, 500 ml, 1 Liter.
C.A.S. No.	None assigned

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Iodine-Potassium Iodide Solution, Starch Test	1.27%	(as Iodine)
(Iodine-Potassium Iodide water solution)		See Section V

Flash Point (Method Used) Non-flammable (NA).
 Boiling Point (°F) Approx. 100°C (212°F)
 Vapor Pressure (mm Hg) 14 (water)
 Vapor Density (air = 1) 0.7 (water)
 Solubility in Water Complete
 Appearance and Odor Deep-amber color liquid; iodine odor.

SECTION III PHYSICAL DATA

Melting Point (°F)	May freeze at 0°C	Specific Gravity (H ₂ O = 1)	Approx. 1.10
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	96%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (E ₁₀₀)	Greater than 1

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits (M, Air % by Volume)	Lower: _____ Upper: _____
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Extinguisher Media Use any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated, emits toxic and corrosive, violet in color, fumes of iodine. Iodine is corrosive to metals and to all body tissue.

Freys SCIENTIFIC
 905 HICKORY LANE MANSFIELD OHIO 44905
 Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

CHEMTREC
 800-424-9300
 Day 716-226-6177
 Night 716-334-4222

HAZARD RATING
 LEAST SLIGHT MODERATE HIGH EXTREME
 0 1 2 3 4

Health 3
 Fire 0
 Reactivity 2

SECTION V HEALTH HAZARD DATA

Threshold Limited Value
 None established for this solution. (ACGIH 1983-84) Toxicity: 0.1-human TM: As Iodine (Celling Tint) 0.1 ppm; 1 mg/m³ (Air) LD₅₀: 2000 mg/kg

Effects of Overexposure

Contact as fumes or solution is intensely irritating to eyes, skin and mucous membranes.
 IRRITATION: Of large quantities causes abdominal pain, vomiting and diarrhea. In severe cases purging, excessive thirst and circulatory failure may develop.

Emergency and First Aid Procedures

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IRRITATION: If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting. Follow by giving starch solution, milk, egg white or gruel. Call physician immediately.
 EYES: In case of contact, flush eyes thoroughly with water. Holding eye lids open, flush thoroughly for at least 15 minutes. Get immediate medical attention.
 INHALATION: If inhaled, remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.
 SKIN: Flush thoroughly with water.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
Incompatibility (Materials to avoid)	Stable	Conditions to Avoid	Excessive temperature and heat.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
 Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for disposal. Wash spill area with 5-10% sodium thiosulfate solution.

SECTION VIII SPECIAL PROTECTION INFORMATION

Waste Disposal Method
 Dispose of in an approved chemical landfill or cover with a reducer (hydro agents). Mix well and spray with water. A sulfite or ferrous salt or strong reducing agent will require addition of 3H-150g to promote reduction. Scoop slurry into a container of water, neutralize the slurry with soda ash and wash to discharge. treatment, or disposal may be subject to federal, state, or local laws. drain with excess water.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing
 Store in a cool, dry, well-ventilated area. Remove all contaminated clothing and shoes. Wash before reuse. Wash thoroughly after handling.
 Other Precautions
 Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
 Rev. No. 11/2/87 Date 11/2/87 Approved Michael P. Scoville Chemical Safety Coordinator

