

International: 703-527-3887



IODINE SOLUTIONS, 0.002 - 0.0757 Normal

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

3970, 3971, 3972, 3973, 3975, 3980, 3982, 3983, 3985, 3990, 3991, 3992, 3995, I-130, I-148, I-150, I048600, I048640, I048660, I048750, I048800, IX-907, IX-909, IX-910, IX-914, R3965000, R3970500, R39730UL, R3991500, SI048600, SI048640, SI048660, SI048750, SI048800

Product Identity:

Catalog Number:

IODINE SOLUTIONS 0.002 - 0.0757 Normal

IODINE SOLUTIONS, 0.002 - 0.0757 Normal				
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887			
CAGE Code: 0V553				
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601			
Date Prepared: 1/19/99	Revision: 13 Last Revised: 03/20/2007 Date Printed: 06/15/2007 4:48:44 pm			

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
lodine	7553-56-2	<= 1	C 0.1 ppm	C 0.1 ppm
iodine	7 555 55 2		C 1 mg/m3	C 1 mg/m3
Potassium lodide	7681-11-0	< 6	Not Available	Not Available
			Not Available	Not Available
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present any significant health hazards. Stronger concentrations of lodine solutions are used as topical solutions. Serious exposures to Iodine are seldom encountered in industry due to the low volatility of the solid at room temperatures. Wash areas of contact with water.

Target Organs: eyes, skin Eye Contact: Causes irritation.

Inhalation: May cause irritation of the respiratory tract. Skin Contact: May cause irritation. Will stain skin.

Ingestion: May cause nausea, vomiting, diarrhea and cramps.

Chronic Effects/Carcinogenicity: Chronic ingestion of large amounts may result in thyroid disease.

IARC - No.



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands

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NTP - No. OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Iodine. Reproductive effects cited in

'Registry of Toxic Effects of Chemical Substances' for Potassium Iodide.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Iodide.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

Section 5: Fire Fighting Measures

Flash Point: Not Available. Method Used: Not Available.

UFL: Not Available. LFL: Not Available

Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material and dispose of in accordance with local regulations. Solution may be neutralized with Sodium Thiosulfate solutions until colorless, then flushed down the drain with excess water.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves. Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Dark brown liquid Odor: Characteristic weak lodine odor

Solubility in Water: Inifinite

Specific Gravity: Approximately 1.00 - 1.05

pH: Not Available.

Boiling Point(°C): Approximately 100 Melting Point(°C): Approximately 0 Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Powdered Aluminum, Active metals (Lithium, Potassium, Sodium), Ammonia, Acetylene, Acetaldehyde, strong Oxidizers. Hazardous Decomposition Products: When heated to decomposition, emits irritating smoke and fumes including lodine vapors and lodide.

Hazardous Polymerization: Will not occur.



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Section 11. Toxicological Information

LD50, Oral, Rat: (lodine) 14 gm/kg, details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

Ecotoxicological Information: There is insufficient information available to evaluate the long-term effects of lodine on aquatic life, birds, plants or terrestrial animals.

Chemical Fate Information: lodine is highly persistent in water, with a half-life of between 20 and 200 days. The concentration of lodine found in fish tissues is expected to be much higher than the average concentration of lodine in water from which the fish was taken.

Section 13. Disposal Considerations

Dilute solution with water. Neutralize with Sodium Thiosulfate solutions until colorless. Neutralize this resulting solution with Sodium Carbonate or dilute Hydrochloric Acid solutions, then wash down the drain with excess water if local regulations allow. If not allowed, save for recovery or recycling with a RCRA approved waste disposal facility.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Catagories:No Section 313 Toxic Chemicals: Not Applicable.

California: None Reported. Pennsylvania: None Reported. RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

WHMIS: Not Applicable.

Section 16. Other Information



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NFPA Ratings:

Health: 2 Flammability: 0 Reactivity: 0 Special Notice Key:None

HMIS Ratings:

Health: 2 Flammability: 0 Reactivity: 0 Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 9-21-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300, added catalog numbers 3982, 3983 and 3985; (Section 3) added Potassium Iodide to mutation and reproductive effects; (Section 7) added storage code; (Section 15) added Florida state reference.

Rev 2, 10-09-2001: Reformatted to electronic data format.

Rev 3, 11-13-2002: (Section 1) added Solutions Plus catalog numbers I048600, I048640, I048660, I048650, I048800.

Rev 4, 06-24-2003: (Section 1) revised title to include 0.002N, added catalog number 3970.

Rev 5, 01-27-2004: (Section 1) added catalog number R3991500.

Rev 6, 10-07-2005: (Section 1) added Red Bird catalog number I-130.

Rev 7, 11-29-2005: (Section 1) added Red Bird catalog number IX-907.

Rev 8, 07-13-2006: (Section 1) added catalog number R39730UL.

Rev 9, 12-04-2006: (Section 9) revised specific gravity range from 1.00 to 1.03.

Rev 10, 12-13-2006: (Section 1) added catalog number R3970500.

Rev 11, 01-24-2007: (Section 1) added Red Bird catalog number IX-909.

Rev 12, 02-08-2007: (Section 1) added catalog number R3965000; (Section 15) revised OSHA status.

Rev 13, 03-20-2007: (Section 1) added Red Bird catalog numbers I-150, IX-910 and IX-914.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.