

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Iodine (Iodine-Iodide), 0.00500 Normal (N/200)

Product Number: R3970500
Other Identifying Product Numbers: R3970500-4C

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company

Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statement	Precautionary Statements
Skin Sensitizer	Category 1	H317	P261, P272, P280, P302+P352, P332+P313, P321, P363, P501
Reproductive Toxicity	Category 2	H361	P201, P202, P280, P308+P313, P405, P501

2.2. GHS Label Elements

Pictograms:



Signal Word: Warning

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Hazard Statements:

Hazard Number	Hazard Statement
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.

Precautionary Statements:

Precautionary Number	Precautionary Statement	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P261	Avoid breathing dust, fumes or mist.	
P272	Contaminated work clothing must not be allowed out of the workplace.	
P280	Wear protective gloves and eye protection.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P308+P313	IF exposed or concerned: Get medical attention.	
P321	Specific treatment (Wash areas of contact with water).	
P332+P313	If skin irritation occurs: Get medical attention.	
P363	Wash contaminated clothing before reuse.	
P405	Store locked up.	
P501	Dispose of contents in accordance with local, state, federal and international regulations.	

2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H_2O	18.01 g/mol	7732-18-5	99.74%
Potassium Iodide	KI	166.00 g/mol	7681-11-0	0.20%
Iodine	$\overline{\hspace{1cm}}_{2}$	253.80 g/mol	7553-56-2	0.06%

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SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: Causes irritation.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. May cause irritation. Will stain skin.

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

4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. Stronger concentrations of lodine solutions are used as topical solutions. Serious exposures to lodine are seldom encountered in industry due to the low volatility of the solid at room temperatures. Wash areas of contact with water.

EYE CONTACT: Causes irritation. SKIN CONTACT: May cause irritation. Will stain skin. CHRONIC EFFECTS / CARCINOGENICITY: Chronic inquestion of large amounts may result in thyroid disease.

4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

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

7.1. Precautions for Safe Handling and Storage Conditions

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

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SECTION 8: Exposure Controls / Personal Protection

8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
lodine (7553-56-2)	TLV-STEL	USA	0.1 ppm STEL (aerosol and vapor)	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
lodine (7553-56-2)	TLV-TWA	USA	0.01 ppm TWA (inhalable fraction and	ACGIH - Threshold Limit Values - Time
			vapor)	Weighted Averages (TLV-TWA)
lodine (7553-56-2)	PEL-Ceiling	USA	0.1 ppm Ceiling	U.S OSHA - Final PELs - Ceiling Limits
			1 mg/m³ Ceiling	
Potassium Iodide (7681-11-0)	TLV-TWA	USA	0.01 ppm TWA (inhalable fraction and	ACGIH - Threshold Limit Values - Time
			vapor)	Weighted Averages (TLV-TWA)

8.2. Exposure Controls

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: Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

8.3. Personal Protective Equipment

Wear protective gloves and eye protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Dark brown liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: 0.0°C

Initial Boiling Point /Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.0

Solubility: Miscible

Partition Coefficient (n-Octanol/Water): Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

ExplosiveProperties: Data not available. **Oxidizing Properties:** Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Powdered Aluminum, Active metals (Lithium, Potassium, Sodium), Ammonia, Acetylene, Acetaldehyde, strong Oxidizers.

10.4. Hazardous Decomposition Products

Will not occur.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

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

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing dust, fumes or mist. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

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Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Not applicable.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

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15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Iodine (CAS # 7553-56-2): 0.001 curie final RQ; 0.000037 TBq final RQ Iodine (CAS # 7553-56-2): 0.01 curie final RQ; 0.00037 TBq final RQ Iodine (CAS # 7553-56-2): 0.1 curie final RQ; 0.0037 TBq final RQ Iodine (CAS # 7553-56-2): 1 curie final RQ; 0.037 TBq final RQ Iodine (CAS # 7553-56-2): 10 curie final RQ; 0.37 TBq final RQ Iodine (CAS # 7553-56-2): 100 curie final RQ; 3.7 TBq final RQ Iodine (CAS # 7553-56-2): 1000 curie final RQ; 37 TBq final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI) Not listed.

15.5. Massachusetts Right-to-Know Substance List

Iodine (CAS # 7553-56-2): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances

lodine (CAS # 7553-56-2): Present Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

lodine (CAS # 7553-56-2): sn 1026

15.8. California Proposition 65

lodine (CAS # 7553-56-2): developmental toxicity, initial date 1/1/89

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Iodine (CAS # 7553-56-2): Present Potassium Iodide (CAS # 7681-11-0): Present Water (CAS # 7732-18-5): Present

15.10. United States of America Toxic Substances Control Act (TSCA) List

Iodine (CAS # 7553-56-2): Present Potassium Iodide (CAS # 7681-11-0): Present Water (CAS # 7732-18-5): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

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SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fumes or mist. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical attention. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

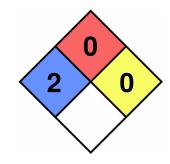
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 2
Flammability: 0
Reactivity: 0
Special Hazard:



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16.4. Document Revision

Last Revision Date: 5/1/2015

DISCLAIMER

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.

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