### **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Iodine Monochloride Solution, Wijs, for Iodine Absorption Number of Fats and Oils

**Product Number: 4110** 

Other Identifying Product Numbers: 4110-1, 4110-100, 4110-16, 4110-1SC, 4110-32, 4110-5PT

#### 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

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# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### **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
Acute Toxicity - Oral	Category 3	H301	P264, P270, P301+P310, P321, P330, P405, P501
Acute Toxicity - Dermal	Category 4	H312	P280, P302+P352, P312, P321, P362, P501
Acute Toxicity - Inhalation	Category 4	H332	P261, P271, P304+P340, P312
Skin Corrosion / Irritation	Category 1A	H314	P260, P264, P280, P301+P330+P331, P303+P361+P353, P363, P304+P340, P310, P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Specific Target Organs/Systemic Toxicity Following Single Exposure	Category 1	H370	P260, P264, P270, P307+P311, P321, P405, P501
Specific Target Organs/Systemic Toxicity Following Repeated Exposure	Category 2	H373	P260, P314, P501
Flammable Liquids	Category 3	H226	P210, P233, P240, P241, P242, P243, P280, P303+P361+P353, P370+P378, P403+P235, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501

#### 2.2. GHS Label Elements

Pictograms:











Signal Word: Danger

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#### **Hazard Statements:**

Hazard Number	Hazard Statement
H226	Flammable liquid and vapor.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

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#### **Precautionary Statements:**

Precautionary Statements:	
<b>Precautionary Number</b>	Precautionary Statement
P210	Keep away from heat, sparks and open flame. No smoking.
P233	Keep container tightly closed.
P234	Keep only in original container.
P240	Ground container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, mist, vapors, or spray.
P261	Avoid breathing fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P307+P311	IF exposed: Call a POISON CENTER or physician.
P310	Immediately call a POISON CENTER or physician.
P312	Call a POISON CENTER or physician if you feel unwell.
P314	Get medical attention if you feel unwell.
P321	Specific treatment (Wash areas of contact with water immediately).
P330	Rinse mouth.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P362	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.
P390	Absorb spillage to prevent material damage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.

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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	<b>CAS Number</b>	Weight%
Acetic Acid	CH₃COOH	60.05 g/mol	64-19-7	98.54%
Iodine Monochloride	ICI	162.35 g/mol	7790-99-0	1.46%
Iodine		253.80 g/mol	7553-56-2	0.00%

### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and

irritation to eyes.

Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause serious damage to the

skin. Effects may include redness, pain, skin burns.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician

immediately.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

DANGER! Corrosive and flammable. Causes severe burns. May be fatal if swallowed. Use with adequate ventilation. Avoid prolonged breathing of vapor or contact with skin. Do not pipet by mouth. If ingested, give large quantity of water. Do not induce vomiting. Call a physician. Wash areas of contact with plenty of water for at least 15 minutes. For eyes, get medical attention. EYE CONTACT: Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes. SKIN CONTACT: May cause serious damage to the skin. Effects may include redness, pain, skin burns. CHRONIC EFFECTS / CARCINOGENICITY: Repeated exposures may cause erosion of exposed front teeth, darkening of skin and chronic inflammation of the nose, throat and bronchial tubes.

#### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately).

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### **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Water spray, dry chemical, alcohol foam, carbon dioxide

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Flammable liquid and vapor. Combustible liquid. Combustion may produce irritants and toxic gases. (glacial)

#### 5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Teflon, Viton, or Saranex barrier recommended. (glacial)

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

### 6.2. Cleanup and Containment Methods and Materials

Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Use soda ash to neutralize spills. Control runoff and isolate discharged material for proper disposal. (glacial)

## **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with bases. Store at 15oC (59oF) or above to prevent crystallization.

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## **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetic Acid (64-19-7)	TWA	USA	10 ppm TWA	U.S OSHA - Final PELs - Time
			25 mg/m³ TWA	Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-STEL	USA	15 ppm STEL	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time
				Weighted Averages (TLV-TWA)
lodine (7553-56-2)	TLV-STEL	USA	0.1 ppm STEL (aerosol and vapor)	ACGIH - Threshold Limit Values - Short
				Term Exposure Limits (TLV-STEL)
Iodine (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/m <sup>3</sup> Ceiling	

#### 8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. A system of local and/or general exhaust is recommended to keep

employee exposures below the Airborne Exposure Limit.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator

with acid gas/organic vapor cartridge.

**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. In case of inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge. 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: Strong, vinegar, lachrymator

Odor Threshold: 0.074 Ppm

**pH**: <1

Melting/Freezing Point: 16.64°C

Initial Boiling Point /Range: Approximately 118°C - Approximately 118°C

Flash Point: 39°C

Evaporation Rate: 0.97 (butyl acetate = 1)

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: 11.4 mmHg at 20°C

Vapor Density: 2.1 Relative Density: 1.05

Solubility: Miscible

Partition Coefficient (n-Octanol/Water): -0.31 at 20 °C

**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. Acetic acid contracts slightly upon freezing which may cause the container to burst.

#### 10.2. Possibility of Hazardous Reactions

Data not available.

#### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Keep only in original container. Strong bases, strong oxidizers, chromic acid, sodium peroxide, nitric acid, perchloric acid.

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#### 10.4. Hazardous Decomposition Products

Will not occur.

### **SECTION 11: Toxicological Information**

### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Toxic if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Dermal Exposure:**

Harmful in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water immediately). Take off contaminated clothing and wash it before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Inhalation Exposure:**

Harmful if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat (Acetic Acid): 3310 mg/kg, LDLo, Oral, Rat (Iodine Monochloride) 50 mg/kg, LD50, Dermal, Rabbit (Acetic Acid): 1.06 g/kg, details of toxic effects not reported other than lethal dose value; LC50, Inhalation, Mouse (Acetic Acid): 5620 ppm/1 hr., eye and blood effects noted.

#### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### **Respiratory Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Skin Sensitization:**

Not applicable.

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#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

#### Specific Target Organ Toxicity from Single Exposure:

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

#### 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

Neutralize the lodine Monochloride with Sodium Thiosulfate in large volume of water. Neutralize acid with Soda Ash or slaked lime mixture, and then pour into the drain while flushing with water, if allowed. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

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### **SECTION 14: Transportation Information**

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

**Sizes:** 1 L, 2.5 L, 4 L, 4 L, 100 mL, 500 mL

UN Number: UN2920

Proper Shipping Name: Corrosive liquid, flammable, n.o.s. (Acetic Acid, Iodine Monochloride)

Hazard Class: 8 (3)

Packing Group:

**Hazard Placard Labels:** 





Sizes:

**UN Number:** 

**Proper Shipping Name:** 

**Hazard Class:** 

**Packing Group:** 

**Hazard Placard Labels:** 

### 14.2. Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 1 L, 2.5 L, 4 L, 4 L, 100 mL, 500 mL

UN Number: UN2920

Proper Shipping Name: Corrosive liquid, flammable, n.o.s. (Acetic Acid, Iodine Monochloride)

Hazard Class: 8 (3)

Packing Group:

Hazard Placard Labels:





## **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

Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ lodine (CAS # 7553-56-2): 0.001 curie final RQ; 0.000037 TBq final RQ lodine (CAS # 7553-56-2): 0.01 curie final RQ; 0.00037 TBq final RQ

lodine (CAS # 7553-56-2): 0.1 curie final RQ; 0.0037 TBq final RQ

lodine (CAS # 7553-56-2): 1 curie final RQ; 0.037 TBq final RQ

lodine (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

lodine (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

Acetic Acid (CAS # 64-19-7): Present lodine (CAS # 7553-56-2): Present

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Acetic Acid (CAS # 64-19-7): Environmental hazard Acetic Acid (CAS # 64-19-7): Present Iodine (CAS # 7553-56-2): Present

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

Acetic Acid (CAS # 64-19-7): corrosive Acetic Acid (CAS # 64-19-7): sn 0004 Iodine (CAS # 7553-56-2): sn 1026

Iodine Monochloride (CAS # 7790-99-0): corrosive Iodine Monochloride (CAS # 7790-99-0): sn 1027

#### 15.8. California Proposition 65

lodine (CAS # 7553-56-2): developmental toxicity, 1/1/1989

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

Acetic Acid (CAS # 64-19-7): Present (DSL)
Acetic Acid (CAS # 64-19-7): Present (NDSL)
Iodine (CAS # 7553-56-2): Present (DSL)
Iodine Monochloride (CAS # 7790-99-0): Present (DSL)

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

Acetic Acid (CAS # 64-19-7): Present Iodine (CAS # 7553-56-2): Present

Iodine Monochloride (CAS # 7790-99-0): Present

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15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),
European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)
Not listed.

### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

Flammable liquid and vapor. May be corrosive to metals. Toxic if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Keep only in original container. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water immediately). If experiencing respiratory symptoms: Call a POISON CENTER or physician. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Absorb spillage to prevent material damage.

Store in a well-ventilated place. Keep cool. Store locked up. Store in corrosive resistant container with a resistant inner liner.

#### 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.

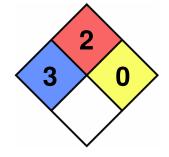
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16.3. National Fire Protection Association (NFPA) Rating

Health: 3

Flammability: 2

Reactivity: 0 Special Hazard:



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#### 16.4. Document Revision

Last Revision Date: 3/8/2017

### **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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