

# **SECTION 1: Identification**

# 1.1. Product Identifier

Trade Name or Designation: VeriSpec<sup>™</sup> Iridium Standard for ICP 1000 ppm in 10% HCI Manufactured and Tested in an ISO 17025/Guide 34 Accredited Facility

Product Number: RV010287

Other Identifying Product Numbers: RV010287-100N, RV010287-250N, RV010287-30N, RV010287-500N, RV010287-50N

# 1.2. Recommended Use and Restrictions on Use

Calibration Standard

# 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 Corrosion / Irritation	Category 1B	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406

# 2.2. GHS Label Elements

Pictograms:



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# **Safety Data Sheet**

# Signal Word: Danger

#### Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement
P234	Keep only in original container.
P260	Do not breathe dust, fumes or mist.
P264	Wash arms, hands and face thoroughly after handling.
P280	Wear protective gloves and eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.

# 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%
Iridium chloride (IrCl3)	Cl₃lr	298.57 g/mol	10025-83-9	0.16%
Hydrochloric Acid	HCI	36.46 g/mol	7647-01-0	10.00%
Water	H₂O	18.01 g/mol	7732-18-5	89.84%

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

# 4.1. General First Aid Information

**Eye Contact:** No action required to be taken. If necessary, rinse eyes with water.



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

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation to areas of contact.

4.3. Medical Attention or Special Treatment Needed

Not expected to require special treatment.

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

#### 5.1. Extinguishing Media

Not considered to be a fire or explosion hazard.

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**

Wear protective clothing and NIOSH-approved 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.

# **SECTION 7: Handling and Storage**

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

Store in corrosive resistant container with a resistant inner liner.

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

### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Hydrochloric Acid (7647-01-0)	TLV-Ceiling	USA	2 ppm Ceiling	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Hydrochloric Acid (7647-01-0)	PEL-Ceiling	USA	5 ppm Ceiling 7 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits



## 8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: No specific controls are needed. Normal room ventilation is adequate

Skin Protection: Wear protective gloves and eye protection.

Eye Protection: Wear protective gloves and eye protection.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection.

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Basic Physical and Chemical Properties

Discologia Chates Liquid
Physical State: Liquid
Odor: Data not available.
Odor Threshold: Data not available.
<b>pH:</b> Data not available.
Melting/Freezing Point: Data not available.
Initial Boiling Point /Range: Data not available.
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: 1.00
Solubility: Data not available.
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

Keep only in original container.

### **10.4. Hazardous Decomposition Products**

May emit irritating fumes when heated to decomposition.

# **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:

Data not available.

#### Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe dust, fumes or mist. 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). 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:

Not applicable.

#### **Respiratory Sensitization:**

Not applicable.

Skin Sensitization: Not applicable.



Germ Cell Mutagenicity: Not applicable.

Carcinogenicity: Not applicable.

#### Reproductive Toxicity: Not applicable.

Specific Target Organ Toxicity from Single Exposure: Not applicable.

Specific Target Organ Toxicity from Repeated Exposure: Not applicable.

Aspiration Hazard: Not applicable.

#### 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)

30 mL, 50 mL, 100 mL, 250 mL, 500 mL Sizes: UN Number: UN1789 **Proper Shipping Name:** Hydrochloric Acid Hazard Class: 8 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: 30 mL, 50 mL, 100 mL, 250 mL, 500 mL

UN Number: UN1789

Proper Shipping Name: Hydrochloric Acid

> Hazard Class: 8

Packing Group:

Hazard Placard Labels:



# **SECTION 15: Regulatory Information**

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.



- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Hydrochloric Acid (CAS # 7647-01-0): 500 lb TPQ (gas only) Hydrochloric Acid (CAS # 7647-01-0): 5000 lb EPCRA RQ (gas only)
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Hydrochloric Acid (CAS # 7647-01-0): 5000 lb final RQ; 2270 kg final RQ
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI) Hydrochloric Acid (CAS # 7647-01-0): 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

# 15.5. Massachusetts Right-to-Know Substance List

Hydrochloric Acid (CAS # 7647-01-0): Extraordinarily hazardous

# 15.6. Pennsylvania Right-to-Know Hazardous Substances

Hydrochloric Acid (CAS # 7647-01-0): Environmental hazard Hydrochloric Acid (CAS # 7647-01-0): Present Water (CAS # 7732-18-5): Present

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

Hydrochloric Acid (CAS # 7647-01-0): corrosive Hydrochloric Acid (CAS # 7647-01-0): sn 1012 Hydrochloric Acid (CAS # 7647-01-0): SN 1012 500 lb TPQ (>=37% concentration); SN 2909 500 lb TPQ (Hydrogen chloride gas only)

# 15.8. California Proposition 65

Not listed.

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

Iridium chloride (IrCl3) (CAS # 10025-83-9): Present (DSL) Hydrochloric Acid (CAS # 7647-01-0): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

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

Iridium chloride (IrCl3) (CAS # 10025-83-9): Present Hydrochloric Acid (CAS # 7647-01-0): Present [T] 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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# **Safety Data Sheet**

# **SECTION 16: Other Information**

# 16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage.

Keep only in original container. Do not breathe dust, fumes or mist. 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. 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. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Store locked up. Store in corrosive resistant container with a resistant inner liner.

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. Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 3 Flammability: 0 Reactivity: 0 Special Hazard:





# 16.4. Document Revision

Last Revision Date: 9/7/2016

# 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.