Classified according to WHMIS 2015

### **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Chlorine Water, Saturated, approximately 0.3% (w/v)

**Product Number: 1980** 

Other Identifying Product Numbers: 1980-16, 1980-32, 1980-4, R1980000-500C1

#### 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 hours)

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

### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

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

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Skin Corrosion / Irritation	Category 2	H315	P264, P280, P302+P352, P321, P332+P313, P362
Hazardous to the Aquatic Environment (Acute)	Category 1	H400	P273, P391, P501

Product Number: 1980 Page 1 of 10



# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

### 2.2. GHS Label Elements

Pictograms:





Signal Word: Warning

#### **Hazard Statements:**

<b>Hazard Number</b>	Hazard Statement
H315	Causes skin irritation.
H400	Very toxic to aquatic life.

#### **Precautionary Statements:**

Precautionary Number	Precautionary Statement	
P264	Wash arms, hands and face thoroughly after handling.	
P273	Avoid release to the environment.	
P280	Wear protective gloves and eye protection.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P321	Specific treatment (Wash areas of contact with water).	
P332+P313	If skin irritation occurs: Get medical attention.	
P362	Take off contaminated clothing and wash it before reuse.	
P391	Collect spillage.	
P501	Dispose of contents in accordance with local, state, federal and international regulations.	

### 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	99.67
Chlorine	$Cl_2$	70.90 g/mol 7782-50-5	0.33

Product Number: 1980 Page 2 of 10

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

#### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

**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, redness, and pain.

**Ingestion:** Do not induce vomiting. Give large quantity of water. Call a physician immediately.

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

Causes skin irritation. WARNING! Hazardous fumes and liquid. Use with adequate ventilation. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. If ingested, do not induce vomiting. Dilute with large quantity of water and call a physician. Wash areas of contact with plenty of water. For eyes, get medical attention. Primary hazard is inhalation but has good warning properties and can be detected well below the hazard level. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

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

Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## **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. May react with metals to release flammable Hydrogen gas.

### 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

Cover the spill with a reducer (Hypo, a Bisulfite, or a Ferrous salt). Mix well and spray with water. Acidify with 3 Molar Sulfuric Acid. When reduction is complete, add soda ash or dilute Hydrochloric Acid to neutralize the solution. Wash down drain with excess water. Always dispose of in accordance with local regulations.

Product Number: 1980 Page 3 of 10



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

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

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Refrigeration will help maintain the strength of this solution.

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

#### 8.1 Control Parameters

Chemical Name	Limit Type	Count	ry Exposure Limit	Information Source
Chlorine (7782-50-5)	PEL-Ceiling	USA	1 ppm Ceiling; 3 mg/m³ Ceiling	U.S OSHA - Final PELs - Ceiling Limits
Chlorine (7782-50-5)	TLV-TWA	USA	0.1 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Chlorine (7782-50-5)	TLV-STEL	USA	0.4 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

#### 8.2. Exposure Controls

Engineering Controls: Work in fume hood.

Respiratory Protection: If the TLV is exceeded, a full-face chemical cartridge respirator may be worn up to 50 times the TLV or the

maximum use concentration specified by the respirator supplier, whichever is less.

**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. If the TLV is exceeded, a full-face chemical cartridge respirator may be worn up to 50 times the TLV or the maximum use concentration specified by the respirator supplier, whichever is less. Chemical resistant gloves. Safety glasses or goggles.

Product Number: 1980 Page 4 of 10



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

#### 9.1. Basic Physical and Chemical Properties

Appearance: Yellow-green 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: 1.00

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: 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

Most metals, Cyanides, alcohols, Ammonia.

#### 10.4. Hazardous Decomposition Products

Will not occur.

Product Number: 1980 Page 5 of 10

## **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:**

LC50, inhalation, rat: (Chlorine) 137 ppm/1 hr, LCLo, inhalation, human: 500 ppm/5 min, details of toxic effects not reported other than lethal dose value.

#### Skin Corrosion and Irritation:

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

#### 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.

Product Number: 1980 Page 6 of 10

## **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Very toxic to aquatic life. Avoid release to the environment. Collect spillage. 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

Data not available.

## **SECTION 14: Transportation Information**

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

**Sizes:** 1 L, 120 mL, 473 mL, 500 mL

UN Number: UN1760

**Proper Shipping Name:** Corrosive liquid, n.o.s. (Chlorine)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



Product Number: 1980 Page **7** of **10** 



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

**Sizes:** 1 L, 120 mL, 473 mL, 500 mL

UN Number: UN1760

**Proper Shipping Name:** Corrosive liquid, n.o.s. (Chlorine)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



#### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 1 L, 120 mL, 473 mL, 500 mL

UN Number: UN1760

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S. (chlorine)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



## **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

Chlorine (CAS # 7782-50-5): 10 lb EPCRA RQ Chlorine (CAS # 7782-50-5): 100 lb TPQ

## 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Chlorine (CAS # 7782-50-5): 10 lb final RQ; 4.54 kg final RQ

#### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Chlorine (CAS # 7782-50-5): 1.0 % de minimis concentration

#### 15.5. Massachusetts Right-to-Know Substance List

Chlorine (CAS # 7782-50-5): Extraordinarily hazardous

Product Number: 1980 Page 8 of 10

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

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

Chlorine (CAS # 7782-50-5): Environmental hazard

Chlorine (CAS # 7782-50-5): Present

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

Chlorine (CAS # 7782-50-5): sn 0367

Chlorine (CAS # 7782-50-5): SN 0367 100 lb TPQ

#### 15.8. California Proposition 65

Not listed.

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

Water (CAS # 7732-18-5): Present (DSL) Chlorine (CAS # 7782-50-5): Present (DSL)

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

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

Water (CAS # 7732-18-5): Present (ACTIVE) Chlorine (CAS # 7782-50-5): Present (ACTIVE)

# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Water (CAS # 7732-18-5): 231-791-2 Chlorine (CAS # 7782-50-5): 231-959-5

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

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

Causes skin irritation. Very toxic to aquatic life.

Wash arms, hands and face thoroughly after handling. Avoid release to the environment. Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

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

Product Number: 1980 Page 9 of 10



# RICCA CHEMICAL COMPANY®

## **Safety Data Sheet**

#### 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: 2
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2023-11-13

#### **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.

Product Number: 1980 Page 10 of 10