

MSDS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 1980	
Product Identity: CHLORINE WATER, SATURATED	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 10/17/00	Revision: 3 Last Revised: 12/07/2011 Date Printed: 06/19/2012 2:35:40 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available
Chlorine	7782-50-5	< 1% (w/v)	0.5 ppm	C 1 ppm
			1.5 mg/m3	C 3 mg/m3

Section 3: Hazard Identification

Emergency Overview: 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.

Target Organs: eyes, skin, respiratory system.

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

Inhalation: May cause irritation to the respiratory tract, symptoms may include coughing and sore throat.

Skin Contact: May cause irritation, redness, and pain.

Ingestion: May cause nausea, vomiting, and diarrhea.

Chronic Effects/Carcinogenicity: None

IARC - No.

NTP - No.

OSHA - No.

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

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

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: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

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

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard. May react with metals to release flammable Hydrogen gas.

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

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.

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. Refrigeration will help maintain the strength of this solution.

Safety Storage Code: Corrosive

Section 8: Exposure Control/Personal Protection

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: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, yellow-green liquid

Odor: pungent

Solubility in Water: Infinite

Specific Gravity: Approximately 1

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: Most metals, Cyanides, alcohols, Ammonia.

Hazardous Decomposition Products: Fumes of Hydrogen Chloride and Hydrogen in contact with metals, Chlorine gas from Oxidizers.

Hazardous Polymerization: Will not occur.

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Section 11. Toxicological 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.

Section 12. Ecological Information

Ecotoxicological Information: Chlorine has high acute and chronic toxicity to aquatic life.

Chemical Fate Information: Chlorine is non-persistent in water, with a half-life of less than 2 days.

Section 13. Disposal Considerations

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.

Section 14. Transport Information

Part Numbers: 1980-16, 1980-32, 1980-4

D.O.T. Shipping Name: Corrosive Liquid, n.o.s., (Chlorine)

D.O.T. Hazard Class: 8

U.N. / N.A. Number: UN1760

Packing Group: III

D.O.T. Label: 8



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 Categories: Acute: Yes Chronic, Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Chlorine is listed as an Environmental Hazard on the state's Hazardous Substances List. Chlorine is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Chlorine - 10 pounds. Chlorine - 10 pounds.

WHMIS: E: Corrosive Material.



Section 16. Other Information

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)



For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

CHLORINE WATER, SATURATED

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Rev 1, 10-09-2001: Reformatted to electronic data format.
Rev 2, 07-21-2006: Reviewed and approved for distribution.
Rev 3, 12-07-2011: Reviewed and approved for distribution.

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.