

MSDS

HYDROCHLORIC ACID, >=2.04 Normal Aqueous Solutions

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 3712, 3715, 3718, 3720, 3721, 3730, 3740, 3750, 3750.1, 3751, 3755, 3758, 3762, 3770, 3780, H-155, H-160, H-165, H044440, H044500, H044600, H044650, HX-905, HX-918, HX-930, R3720100, R3728000, R3741100, R3750200, R3752000, SH044420, SH044440, SH044500, SH044600, SH044640, SH044650	
Product Identity: HYDROCHLORIC ACID, >=2.04 Normal Aqueous Solutions	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 4/19/99	Revision: 17 Last Revised: 02/21/2007 Date Printed: 06/15/2007 5:01:33 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Hydrochloric Acid	7647-01-0	>= 7.2 (w/w)	C 5 ppm C 7.5 mg/m3	C 5 ppm C 7 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: DANGER! Corrosive liquid! Causes severe burns to all areas of contact. May be fatal if swallowed. Wash areas of contact with water immediately for at least 15 minutes. Inhalation can cause coughing, choking, inflammation of the nose, throat and upper respiratory tract. If ingested, give large quantity of water. Do not induce vomiting. Call a physician immediately.

Target Organs: eyes, skin, respiratory system.

Eye Contact: May cause severe burns and permanent damage.

Inhalation: Can cause coughing, choking, inflammation of the nose, throat and upper respiratory tract.

Skin Contact: Can cause redness, pain and severe skin burns.

Ingestion: Swallowing Hydrochloric Acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, diarrhea, and in severe cases, death.

Chronic Effects/Carcinogenicity: None

IARC - Hydrochloric Acid is unclassifiable as to carcinogenicity to humans.

NTP - No.

OSHA - No.

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

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

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: Flush with plenty of 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 (water or water spray). Neutralize with soda ash or slaked lime.

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. Structural firefighter's protective clothing is ineffective for fires involving Hydrochloric Acid.

Section 6: Accidental Release Measures

Cover the spill with Sodium Carbonate or a soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. 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.

Safety Storage Code: Corrosive

Section 8: Exposure Control/Personal Protection

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

Respiratory Protection: Normal room ventilation is adequate. If necessary, wear a respirator equipped with an acid gas cartridge.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless to slight greenish yellow

Odor: slightly pungent to pungent

Solubility in Water: Infinite

Specific Gravity: Approximately 1.03 - 1.17

pH: < 1

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, Alkalis, active metals, Cyanides, Sulfides, Sulfites, Metal Oxides, Formaldehyde.

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

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rabbit (Hydrochloric Acid) 900 mg/kg; Details of toxic effects not reported other than lethal dose value. LCLo, inhalation, human: 3000 ppm/5 minutes: No toxic effects noted.

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Section 12. Ecological Information

Ecotoxicological Information: Hydrogen Chloride has slight acute and chronic toxicity to aquatic life.

Chemical Fate Information: Virtually 100% of Hydrogen Chloride will eventually end up in the air.

Section 13. Disposal Considerations

Neutralize with Soda Ash or Calcium Carbonate. Wash the resulting liquid to the drain with excess water. Treat the solid residue as normal refuse. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 3715-1, 3715-32, 3718, 3718-16, 3718-32, 3720-1, 3720-16, 3720-2.5, 3720-32, 3720-5, 3721-1, 3721-2.5, 3730-1, 3730-5, 3740-1, 3740-1G, 3740-32, 3740-32G, 3740-5, 3740-5PT, 3750-1, 3750-16, 3750-2.5, 3750-32, 3750-5, 3750-55, 3750.1-1, 3750.1-32, 3750.1-5PT, 3751-1, 3755-1, 3755-1G, 3755-32, 3755-32G, 3755-5, 3755-5PT, 3758-100, 3758-32, 3762-1, 3770-16, 3770-32, 3780-32, 3780-5PT, H-155 10-LT, H-155 20-LT, H-155 4-LT, H-155 500ML, H-155 LT, H-160 20-LT, H-160 4-LT, H-160 500ML, H-160 LT, H-165 10-LT, H-165 20-LT, H-165 4-LT, H-165 500ML, H-165 LT, HX-905 4-LT, HX-905 LT, HX-918 4-LT, HX-918 LT, HX-930 4-LT, R3720100-4A, R3728000-1A, R3728000-4A, R3741100-1A, R3750200-1A, R3752000-55E, SH044440-1A, SH044440-20F, SH044440-4A, SH044440-500A, SH044500-1A, SH044500-20F, SH044500-4A, SH044600-1A, SH044600-20F, SH044600-4A, SH044600-500A, SH044650-1A

D.O.T. Shipping Name: Hydrochloric Acid Solution

D.O.T. Hazard Class: 8

U.N. / N.A. Number: UN1789

Packing Group: II

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, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

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

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Hydrochloric Acid - 5,000 pounds.

WHMIS: E: Corrosive Material.



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Section 16. Other Information

NFPA Ratings:

Health: 3 Flammability: 0 Reactivity: 0 Special Notice Key:None

HMIS Ratings:

Health: 3 Flammability: 0 Reactivity: 0 Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 8-18-99: (Section 1) added catalog number 3762, (Section 7) added storage code.
Rev 2, 12-10-99: (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300.
Rev 3, 5-17-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) added catalog number 3730.2; (Section 2) revised exposure limits from mg/m3 to ppm.
Rev 4, 9-6-2000: (Section 1) added catalog number 3750.1; (Section 13) corrected spelling of Soda.
Rev 5, 10-09-2001: Reformatted to electronic data format.
Rev 6, 11-29-2001: (Section 1) added catalog number 3718.
Rev 7, 09-03-2003: (Section 1) added Solutions Plus catalog number H044600.
Rev 8, 09-25-2003: (Section 1) added Solutions Plus catalog numbers H044440 and H044500.
Rev 9, 09-29-2003: (Section 1) added Solutions Plus catalog number H044650.
Rev 10, 10-04-2005: (Section 1) added Red Bird catalog number HX-905.
Rev 11, 01-21-2006: (Section 1) added catalog number R3728000.
Rev 12, 01-30-2006: (Section 1) added Red Bird catalog number HX-930.
Rev 13, 04-28-2006: (Section 1) added catalog number R3720100.
Rev 14, 09-22-2006: (Section 1) added catalog number 3721.
Rev 15, 12-05-2006: (Section 1) added catalog number R3750200.
Rev 16, 12-13-2006: (Section 1) added catalog number R3752000.
Rev 17, 02-21-2007: (Section 1) added catalog number R3741100.

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.