

Material Safety Data Sheet

Provided by:

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name HYDROCHLORIC ACID

Synonyms MURIATIC ACID

Chemical Name HYDROCHLORIC ACID

Emergency phone: 281-457-4888

Date of Issue: 10/1/00

Chemtrec: 800-424-9300

Revised Date: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
WATER		7732-18-5
HYDROGEN CHLORIDE	10% - 33%	7647-01-0

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 5 ppm

Eye Contact CONTACT MAY CAUSE EYE IRRITATION AND BURNS.

Skin Contact CONTACT MAY CAUSE SEVERE SKIN IRRITATION AND POSSIBLE BURNS.

Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

Inhalation MAY CAUSE RESPIRATORY TRACT IRRITATION. SEVERE OVEREXPOSURE MAY RESULT IN LARYNGEAL SPASM, EDEMA, AND PULMONARY EDEMA.

Carcinogenicity: *NTP* NO *IARC* NO *OSHA* NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point	NOT AVAILABLE.
Extinguishing Media	WATER OR WATER SPRAY.
Special Firefighting Procedures/Precuations	WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill:	CONTAIN, DILUTE CAUTIOUSLY WITH WATER, AND NEUTRALIZE WITH SODA ASH OR LIME.
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SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

STORAGE FACILITIES MUST BE PROPERLY DESIGNED AND DIKED TO CONTAIN ANY SPILLAGE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
Ventilation	LOCAL AND MECHANICAL RECOMMENDED.
Protective Gloves	CHEMICAL IMPERVIOUS GLOVES.
Eye/Face Protection	CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
Other Protection	CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
Work Practices	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 158 - 183	Vapor Pressure (mmHg): 16 - 70 (@ 77 F)
Freezing Point (°F): -51 - -22	Vapor Density (Air=1): 11
Solubility (H2O): COMPLETE	Specific Gravity (H2O=1): 1.05 - 1.17
pH 1	Evaporation Rate: < 1
Appearance/Odor: WATER-WHITE TO STRAW YELLOW LIQUID WITH PUNGENT ODOR.	

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	YES
Incompatible Materials	MOST METALS, ALKALIS, METALLIC OXIDES, AMINES, ESTERS, CARBONATES, CYANIDES, SULFIDES, & WATER REACTIVE MATERIALS.
Decomposition Products	HIGH TEMPERATURES PRODUCE TOXIC HYDROGEN CHLORIDE FUMES & WILL REACT WITH WATER OR STEAM TO PRODUCE HEAT & TOXIC & CORROSIVE FUMES.
Hazardous Polymerization:	WILL NOT OCCUR.

SECTION 11 - TOXICITY INFORMATION

LC50 INHL (rat) = 3124 ppm LD50 ORAL (rabbit) = 900 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: HYDROCHLORIC ACID

Hazard Class: 8

UN/NA Number: UN1789

Packing Group: II

Subsidiary Hazard

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): 5000

SARA Title III Section 312:

Acute **Chronic** **Flammable** **Sudden Release of Pressure** **Reactive**

SARA Title III Section 313: Yes

SARA Extremely Hazardous Substance: No

HMIS HAZARD RATING

Health: 3 **Fire:** 0 **Reactivity:** 0

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

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