

# Material Safety Data Sheet

## Provided by:

DPC Industries, Inc.      DX Distributors, Inc.  
DPC Enterprises          DX Systems Company  
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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

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

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>For Spill:</b>	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

<b>Respiratory Protection</b>	USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
<b>Ventilation</b>	LOCAL AND MECHANICAL RECOMMENDED.
<b>Protective Gloves</b>	CHEMICAL IMPERVIOUS GLOVES.
<b>Eye/Face Protection</b>	CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
<b>Other Protection</b>	CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
<b>Work Practices</b>	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

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

## SECTION 10 - STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	YES
<b>Incompatible Materials</b>	MOST METALS, ALKALIS, METALLIC OXIDES, AMINES, ESTERS, CARBONATES, CYANIDES, SULFIDES, & WATER REACTIVE MATERIALS.
<b>Decomposition Products</b>	HIGH TEMPERATURES PRODUCE TOXIC HYDROGEN CHLORIDE FUMES & WILL REACT WITH WATER OR STEAM TO PRODUCE HEAT & TOXIC & CORROSIVE FUMES.
<b>Hazardous Polymerization:</b>	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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