

**Section 1 - Identification**Product Name: **Hydrochloric Acid 20° Bé (Muriatic Acid)** Revised: 7/13/15

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**Section 2 - Hazards Identification**

Hazard categories: Corrosive to Metals 1; Skin Corrosion/Irritation 1

Signal word: Danger

Hazard statements: May be corrosive to metals. Causes severe skin burns and serious eye damage.

Pictogram: Corrosion

Precautionary statements

Prevention

Keep only in original container. Do not breathe dusts or mist.

Wash hands thoroughly after handling. Wear protective gloves such as rubber or latex.

Wear protective clothing such as an apron.

Wear eye protection such as safety glasses with side shields.

Response**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER for medical advice.**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

Absorb spillage to prevent material damage.

Storage: Store in corrosive resistant container with a resistant inner liner. Store locked up.Disposal: Dispose of contents in accordance with local, regional, national and international regulations.**Section 3 - Composition / Information on Ingredients**

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>Concentration</b>
Water	7732-18-5	67%
Hydrogen chloride	7647-01-0	33%

**Section 4 - First Aid Measures****Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, lifting upper and lower eyelids occasionally. Immediately call a POISON CENTER.**Skin Contact:** Flush exposed skin with running water. Remove contaminated clothing and shoes. If redness, irritation or other symptoms exist after flushing, get medical attention. Wash clothing before reuse. Throw away contaminated shoes.**Inhalation:** Move the affected person to fresh air. If irritation, coughing or other symptoms persist, get medical attention immediately.**Ingestion:** If the product is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping the person warm and quiet. Get medical attention immediately.**Section 5 - Fire-Fighting Measures****Extinguishing Media:** Any**Special Fire Fighting Procedures:** None.**Unusual Fire And Explosion Hazards:** Contact with reactive metals will form hydrogen gas.**Section 6 - Accidental Release Measures****Steps To Be Taken If Material Is Released Or Spilled:** Use adequate personal protective equipment. Clean up small spills with a rag or mop. Wash the area with an alkaline detergent or a 50% solution of baking soda. Spills of 1 quart or less can be washed to the sanitary sewer with plenty of water. Larger spills should be diked to prevent spreading and then collected into clean pails or drums.**Section 7 - Handling and Storage**

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet and on label. Keep container closed. Adding acid to water generates heat. Add slowly. Never add water to acid.

If this product contacts bleach or a cleaner containing bleach, it could produce a dangerous gas (chlorine). If your facility uses bleach, or a cleaner containing bleach, learn what to do if chlorine is accidentally produced. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your emergency preparedness plan.

### Section 8 - Exposure Controls / Personal Protection

Ingredient	C.A.S. No.	Concentration	TWA(source)	STEL	Ceiling
Hydrogen chloride	7647-01-0	33%	-	-	5 ppm(1,2,4), 2 ppm(3)

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

**Ventilation:** Good room ventilation for small and short-term use. Use mechanical exhaust for larger and long-term uses to maintain airborne concentrations below the exposure limits.

**Respiratory Protection:** If the exposure limit will be exceeded or fumes are irritating during use, wear a NIOSH approved respirator with an acid vapor cartridge.

**Protective Gloves:** Use rubber or latex gloves. Do not use disposable latex gloves. Disposable Nitrile are good.

**Eye Protection:** Wear safety glasses with side shields or chemical goggles or face shield.

**Other Protective Equipment:** If splashing is likely to occur wear aprons, protective clothing or boots as the situation calls for. Nylon clothing will be melted and ruined by contact.

### Section 9 - Physical and Chemical Properties

<b>Appearance and Odor:</b> Colorless to slightly brown liquid with pungent acidic, irritating odor.	
<b>Odor Threshold:</b> Not Available	<b>Vapor Pressure:</b> 28 mm Hg @ 68° F.
<b>pH:</b> concentrate 1.0 ± 0.5	<b>Vapor Density:</b> 1.2 (Air = 1)
<b>Melting Point:</b> Not Available	<b>Relative Density (Specific Gravity):</b> 1.17
<b>Freezing Point:</b> Not Available	<b>Solubility(ies): Water:</b> 100%
<b>Boiling Point, Initial:</b> 230° F.	<b>Partition coefficient:</b> Not Available
<b>Boiling Range:</b> Not Available	<b>Auto-ignition Temperature:</b> Not Available
<b>Flash Point:</b> None. (ASTM D-56 closed cup)	<b>Decomposition Temperature:</b> Not Available
<b>Evaporation Rate:</b> 2.0 (Water = 1)	<b>Viscosity:</b> Same as water.-
<b>Flammability: (solid, gas):</b> Not Applicable	<b>Volatiles Percent:</b> 100%
<b>Upper Explosive Limit:</b> None	<b>V.O.C.:</b> 0.0% - 0.0 grams/liter
<b>Lower Explosive Limit:</b> None	

### Section 10 - Stability and Reactivity

**Incompatibility:** Alkalis, bleach, oxidizers, reactive metals. **Hazardous Decomposition Products:** None

### Section 11 - Toxicological Information

**Primary Routes of Entry:**  Skin contact;  Skin absorption;  Inhalation;  Ingestion

**Potential Health Effects:**

**Eyes** - causes severe damage and may cause blindness very rapidly.

**Skin** - causes irritation, redness at first and with continued contact serious burns and permanent damage.

**Swallowing** - causes severe damage to mucous membranes and possibly deep tissue damage and gastrointestinal burns.

**Breathing** - inhalation of vapors causes irritation of the mouth, nose, throat and respiratory passages. Inhalation of mist and prolonged or excessive inhalation of vapors may cause severe damage to the respiratory system.

### Section 12 - Ecological Information

Do not dispose of in the environment.

### Section 13 - Disposal Considerations

**Waste Disposal Method:** Up to 1 quart may be washed to the sanitary sewer with a large amount of water. Larger amounts should be neutralized to within pH limits of your waste water system and then disposed of in the sanitary sewer.

### Section 14 - Transport Information

**D.O.T. Hazard Class:** Hydrochloric Acid, Solution, 8, UN 1789, P.G. II

### Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

### Section 16 - Other Information

**NFPA:** H:3 F:0 I:1 **HMIS® III:** H:3 F:0 P:2 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 4/28/15. Changed primary product name from Muriatic Acid to Hydrochloric Acid.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.