

PHOENIX PRODUCTS CO.  
55 CONTAINER DR  
TERRYVILLE, CT 06786  
(860) 589-7502

PRODUCT NAME: MURIATIC ACID

MATERIAL  
SAFETY DATA  
SHEET  
2/25/02

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS: Hydrochloric Acid  
FORMULA: HCl  
TRADE NAME: Muriatic Acid  
DESCRIPTION: Colorless to pale yellow liquid with pungent, suffocating odor.  
CAS NO. 7647-01-0

SECTION II - PHYSICAL DATA

Boiling Point: 100°C  
Vapor Pressure: 25 mm/hg  
% Volatile by Volume: N/A  
Solubility in water: Complete  
Melting Point: N/A  
Specific Gravity (H<sub>2</sub>O=1): 1.160  
Vapor Density: N/A  
Evaporation Rate: N/A

SECTION III - HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENT	HAZARD DATA
Hydrochloric Acid	7647-01-0	25.00 +/- 0.5%	Corrosive

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A  
Flammable Limits in Air % By Volume: N/A  
Extinguishing Media: Water, carbon dioxide, foam, dry chemical.  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.  
Unusual Fire and Explosion Hazards: May produce hazardous fumes or hazardous decomposition products.  
Autoignition Temp: N/A

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:  
Inhalation: May cause irritation to respiratory tract.  
Skin: Causes sever irritation or burns.  
Eye: May cause sever irritation or burns.  
Ingestion: May cause mouth, throat or gastrointestinal irritation.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURE

INHALATION: Remove to fresh air. Consult a physician.  
SKIN: Remove contaminated clothing , flush with water for at least 15 minutes. Consult a physician.  
EYE: Immediately flush with water for at least 15 minutes. Immediately consult a physician.  
INGESTION: Give large amounts of water. DO NOT induce vomiting. Consult a physician.

SECTION VII - REACTIVITY DATA

Stability: Stable  
Conditions to Avoid: None  
Incompatibility (materials to avoid): Base.  
Hazardous Decomposition: N/A  
Hazardous Polymerization: Will not occur.

**CHEMICAL NAME:**  
Hydrochloric Acid

**TRADE NAME:** Muriatic Acid

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**SECTION VIII - SPILL, LEAKAGE & DISPOSAL PROCEDURES**

**Steps to take if material leaks or spills:** Using recommended protective equipment, carefully add lime or sodium carbonate to neutralize acid. If large spill, first dike to contain. Pick up and put residue into container for disposal. Flush area with water. Collect for disposal or sewer.

**Waste disposal method:** This product, if disposed as shipped, meets EPA criteria of a hazardous waste as specified in 40 CFR 261 on the basis of its corrosivity. Dispose of in licensed hazardous waste facility in accordance with all Federal, State and Local regulations.

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**SECTION IX - SPECIAL PROTECTION DATA**

**Ventilation:** Local exhaust.

**Eye Protection:** Use chemical goggles and full face shield.

**Respiratory Protection:** Use a respirator with acid gas cartridge.

**Protective Gloves:** Use chemical resistant gloves.

**Other Equipment:** Wear full chemical suit and boots. Eye wash fountain should be near work area.

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**SECTION X - SPECIAL PRECAUTIONS DATA**

**Handling and Storage:** DO NOT HANDLE OR USE THIS PRODUCT UNTIL SAFETY PRECAUTIONS RECOMMENDED IN THIS DATA SHEET HAVE BEEN READ AND FULLY UNDERSTOOD.

**Other:** None.

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**SECTION XI - TRANSPORTATION INFORMATION**

**Proper Shipping Name:** Hydrochloric Acid, Solution, 8, UN 1789, PGII.

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The information herein is given in good faith but no warranty, expressed or implied, is made.  
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