

ALDEN LEEDS, INC.
55 JACOBUS AVE.
DATA
SO. KEARNY, NJ 07032
(973) 589-3544

PRODUCT CODE # 4010
PRODUCT NAME: MURIATIC ACID

MATERIAL
SAFETY

SHEET
11/10/02

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

HMIS HAZARD RATINGS: Health Hazard: 3 Fire Hazard: 0 Reactivity: 0

SECTION II - PHYSICAL DATA

Boiling Point: 110C

Boiling Point: 110C/230F

Vapor Pressure: 50 – 60 m/hg

Specific Gravity (H₂O=1): 1.160 – 1.1884

% Volatile by Volume: N/A

Vapor Density: N/A

Solubility in water: Complete

Evaporation Rate: N/A

SECTION III - HAZARDOUS INGREDIENTS

MATERIAL
Hydrochloric Acid

CAS NO.
7647-01-025.00

CONTENT
31.4 - 37%

HAZARD DATA
Corrosive

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Autoignition Temp: 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. Reacts with all metals, except gold and platinum with rapid evolution of Hydrogen, which is flammable and explosive in air. Firefighters exposed to Hydrochloric Acid vapors should wear Scott Air Pak or equivalent. Hydrogen Chloride vapors are extremely irritating to the respiratory tract and may cause breathing difficulty.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Inhalation: May cause severe irritation to the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. Reactions encountered in man have usually been limited to inflammation and occasional ulceration of the nose, throat and larynx. If inhaled deeply, edema of the lungs may occur.

Skin: Concentrated solutions are destructive to clothing and on contact with skin, cause severe burns unless promptly washed off. Repeated skin contact with dilute solutions may lead to the development of dermatitis. Exposure to the concentrated vapor of Anhydrous Hydrogen Chloride may also result in burns or dermatitis.

Eye: Contact of the eyes with Hydrogen Chloride, either as a gas or in solution, rapidly causes severe irritation and painful burns of the eyes and eyelids. If the acid is not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight. Wash the affected area for 15 minutes with large amounts of water.

Ingestion: When concentrated Hydrochloric Acid is swallowed, it causes severe burns of the mucous membranes of the mouth, esophagus and stomach. The lips and mouth usually turn whit, and later brown. There is pain in the throat and stomach, difficulty in swallowing, intense thirst, nausea and vomiting, followed by diarrhea and in severe cases, by collapse and unconsciousness.

CHEMICAL NAME:

TRADE NAME: Muriatic Acid

Hydrochloric Acid

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.

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.

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.

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.

SECTION XI - TRANSPORTATION INFORMATION

Proper Shipping Name: Hydrochloric Acid, Solution, 8, UN 1789, PGII. For all transportation accidents, call **CHEMTREC** at 800-424-9300.

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

ALDEN LEEDS, INC.
55 JACOBUS AVE. SO. KEARNY, NJ 07032
24 HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300