ALDEN LEEDS, INC. 55 JACOBUS AVE.

PRODUCT CODE # 4010 PRODUCT NAME: MURIATIC ACID

MATERIAL SAFETY

DATA

SO. KEARNY, NJ 07032 (973) 589-3544

SHEET 11/10/02

**SECTION I - IDENTIFICATION** 

CHEMICAL NAME & SYNONYMS: Hydrochloric Acid

FORMULA: HCI

**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 (H<sub>2</sub>O=1): 1.160 – 1.1884

% Volatile by Volume: N/A Vapor Density: N/A Solubility in water: Complete **Evaporation Rate: N/A** 

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**SECTION III - HAZARDOUS INGREDIENTS** 

MATERIAL CAS NO. CONTENT Hydrochloric Acid 7647-01-025.00 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

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**

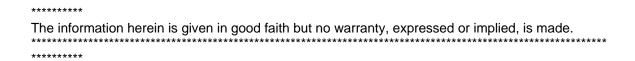
## **EFFECTS OF OVEREXPOSURE:**

**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.

Eve: Contact of the eves 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.

<b>Ingestion:</b> 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 and later brown. There is pain in the throat and stomach, difficulty in swallowing, intense the nausea and vomiting, followed by diarrhea and in severe cases, by collapse and unconsciousness.	rn whit, nirst,
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CHEMICAL NAME: TRADE NAME: Muriatic Acid Hydrochloric Acid	*****
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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.	
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SECTION VII - REACTIVITY DATA  Stability: Stable Conditions to Avoid: None Incompatibility (materials to avoid): Base. Hazardous Decomposition: N/A Hazardous Polymerization: Will not occur.	****
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SECTION VIII - SPILL, LEAKAGE & DISPOSAL PROCEDURES Steps to take if material leaks or spills: Using recommended protective equipment, care add lime or sodium carbonate to neutralize acid. If large spill, first dike to contain. Pick up 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 regulation	and
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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 warea.	
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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 FULL UNDERSTOOD. Other: None.	
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SECTION XI - TRANSPORTATION INFORMATION  Proper Shipping Name: Hydrochloric Acid, Solution, 8, UN 1789, PGII. For all transportati accidents, call CHEMTREC at 800-424-9300.	



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