

ATT
J.G.
10-08

MATERIAL SAFETY DATA SHEET



Chem Tech, Inc.
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Waukee, IA 50263
515-987-6800

Emergency Response Number:
CHEMTREC 1-800-424-9300

SECTION 1: IDENTIFICATION

PRODUCT IDENTITY: Muratic Acid, Acid Cleaner
DATE PREPARED: 4/8/2008
NFPA/HMIS HAZARD CODES: (MINIMAL=0; SLIGHT=1; MODERATE=2; SERIOUS=3; SEVERE=4)
Health: 3/3 **Fire:** 0/0 **Reactivity:** 1/1 **Special:** ACID

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA/PEL	ACGIH/TLV	% BY WT.
Hydrochloric Acid	7664-01-0			100%

*SARA Title III Section 313 (40 CFR 372) reportable chemical.
The product is a water solution of the above ingredients.

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: Above 212(F) **SPECIFIC GRAVITY:** 1.445
VAPOR PRESSURE: No data **PERCENT VOLATILE:** N/A
VAPOR DENSITY: as water **EVAPORATION RATE:** less than water
SOLUBILITY IN WATER: complete **pH:** 1.5-2.0
APPEARANCE/ODOR: Clear, typical acid

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None **FLAMMABLE LIMITS:** N/A
EXTINGUISHING MEDIA: Product will not burn.

SPECIAL FIRE FIGHTING PROCEDURES: Corrosive material: avoid exposure to mists and splashes. In fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent), and full protective gear. Cool exposed containers with water spray to prevent pressure buildup.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Strong acid that can react with metals, especially metals such as aluminum or zinc (galvanized), generating hydrogen. This gas is flammable and/or explosive in the presence of an ignition source.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Do not mix with alkaline or chlorine containing products, peroxides or reducing agents. Avoid contact with aluminum, zinc, tin, or galvanized metals except in accordance with product use instructions.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating to dryness, as in a fire, may release soot, smoke, carbon monoxide and oxides of phosphorus.

REF# RIPPER EXTREME

MATERIAL SAFETY DATA SHEET:
PAGE 2 OF 2

Muratic Acid, Acid Cleaner

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY AND SYMPTOMS OF EXPOSURE:

ACUTE EFFECTS:

Eyes: May cause severe burns; possible permanent eye damage, even blindness.
Skin: Irritant; prolonged contact may cause severe burns which may not be immediately painful or visible.
Ingestion: Severe burns to mucous membranes of mouth, throat and digestive tract.
Inhalation: Mists may cause irritation to nose, throat and respiratory tract; possible tissue damage (Not likely route).
See also, **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE.**

CHRONIC EFFECTS:

CARCINOGENS:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Immediately flush with copious amounts of water for 15 minutes. Hold eyelids open to ensure complete rinse. Remove contact lenses if worn. Get immediate medical attention.
Skin: Flush with water for at least 15 minutes while removing clothing. Continue to rinse until "slippery" feeling is gone. Get medical attention if irritation persists or burns develop.
Ingestion: **DO NOT INDUCE VOMITING.** Give water or milk to dilute. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Inhalation: Remove to fresh air. Get medical attention if irritation persists or symptoms develop later.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:

Small Spills: Flush away with large amounts of water.
Large Spills: Dike to contain spill. Reclaim as much as possible. Absorb remainder with inert materials.
Flush residue away with water. Prevent wash water from entering natural waterways or public water supplies.

Waste Disposal Method:

Trained and properly equipped personnel may dilute and neutralize very carefully with alkali and dispose of in accordance with Federal, State, and local regulations.

Handling and Storage:

DANGER: Concentrated acidic liquid. Do not get in eyes, on skin or clothing.
Store only in original container in a cool, dry, ventilated area and keep closed while not in use.
Mix only with water.

Other Precautions:

Do not reuse container. Empty containers may contain product residue. Follow label precautions even after container is empty. Keep out of reach of children.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION:

Use NIOSH mist respirator if mist in air causes irritation or exceeds exposure limits.
Corrosion resistant equipment recommended.

VENTILATION:

Normally none required. If product is used in a manner which creates dust or mist above recommended exposure limits, a NIOSH/MSHA approved respirator with filter may be needed in the absence of proper environmental controls.

GLOVES:

EYE PROTECTION:

Nitrile, neoprene or natural rubber.
Splash proof goggles or chemical safety glasses.
Provide for full eye protection.

OTHER PROTECTIVE EQUIPMENT:

Rubber or PVC boots and other protective clothing as needed to prevent contact with skin or clothing. Liquid may penetrate leather shoes and cause delayed burns. Provide suitable facilities for quick drenching of the eyes and body near the work area for immediate emergency use.

WORK/HYGIENIC PRACTICES:

Wash thoroughly after handling. Launder contaminated clothing before reuse.
Do not wear clothing soaked with product.
Contaminated leather articles such as shoes, belts or watchbands which cannot be cleaned should be discarded.

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