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MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

Date Prepared 3/18/86 *PS*

SECTION 1 - PRODUCT IDENTIFICATION

Distributor Name	Emergency Telephone No.
Address	
Trade Name	Product Type

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT (optional)	TLV (Source)
Hydrogen chloride (muriatic acid)	7647-01-0		5 ppm (OSHA) 5 ppm (ACGIH)
Other Ingredients in Product are	<input checked="" type="checkbox"/> Less than 1% by Weight or Less than 0.1% for Carcinogens	<input checked="" type="checkbox"/> Not Hazardous	<input checked="" type="checkbox"/> Declared to be Trade Secrets

SECTION 3 - PHYSICAL DATA

Boiling Point (°F)	Near 212	Specific Gravity (H ₂ O = 1.0)	1.070 ± 0.005	pH	1.5 ± 0.5
Vapor Pressure (mmHg)	Not known	Vapor Density (Air = 1)	Not known		
Solubility in Water	<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Insoluble	<input type="checkbox"/> Emulsifiable (or dispersible)	<input type="checkbox"/> Slight (or partial)	
Evaporation Rate (vs H ₂ O)	<input type="checkbox"/> Faster	<input type="checkbox"/> Slower	<input checked="" type="checkbox"/> About the Same		
Appearance and Odor	Liquid, fruity odor				

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.)	<input checked="" type="checkbox"/> None to Boiling	Flammable Limits	Upper Not known	Lower Not known
Extinguishing Media	CO ₂ , dry chemical, foam, water spray			
Special Fire Fighting Procedures	If fire area is filled with hydrogen chloride gas or muriatic acid mist, firemen should wear full cover plastic or rubber protective clothing and self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards	Although nonflammable, muriatic acid will react with most metals with evolution of hydrogen gas which when mixed with air may result in fire or explosion of ignited.			

SECTION 5 - REACTIVITY DATA

<input checked="" type="checkbox"/> Stable	<input type="checkbox"/> Unstable	Incompatibility	Strong oxidizers, alkalis, nitrogen compounds.
Hazardous Decomposition Products		Carbon monoxide, small amounts of phosgene and chlorine as well as other unidentified organic compounds.	

SECTION 6 - HEALTH HAZARDSThreshold Limit Value - Product
(See Section 2 for Ingredient TLV) None
Established Not
Applicable

Source

Primary Routes
of Exposure Eye Skin Oral Inhalation Other

Signs and Symptoms of Overexposure (Acute)

Eyes: causes burns. Skin: causes burns. Ingestion: severe
internal irritation and damage. Since product does not emit vapors, inhalation hazard should
be low.

Signs and Symptoms of Overexposure (Chronic)

None known

Medical Conditions Aggravated by Overexposure

None known

Carcinogen or Suspect
Carcinogen Ingredients: NTP ARC OSHA None**SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES IN CASE OF OVEREXPOSURE**

Eyes Flush immediately with water for at least 15 minutes. Call a physician.

Skin

Flush immediately with water for at least 15 minutes. Remove and wash all clothing
before reuse.

Ingestion

Do not induce vomiting. Give large quantities of water. Give at least one ounce of
Milk of Magnesia or aluminum hydroxide gel in an equal amount of water. If these are not
available, the whites of two or three eggs may be used. Call a physician.

Inhalation

Remove exposed individual to fresh air. Treat symptomatically. Call a physician.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection Not needed under normal conditions of use.

Ventilation
Requirements Local
Exhaust Mechanical OtherProtective
Gloves

Rubber

Eye Protection

Safety glasses

Other Protective Clothing Water source to flush eyes and skin. Other protective clothing should be
used if splashing or spray drift occurs.**SECTION 9 - SPILL OR LEAK PROCEDURES**Steps to be Taken if Released or Spilled Neutralize the spill area with soda ash, then flood area with
plenty of water. Large spills should be contained and collected for disposal.

Disposal Methods

Dispose of in accordance with applicable federal, state and local ordinances.

SECTION 10 - STORAGE AND HANDLING INFORMATIONPrecautions to be Taken in Handling and Storage DANGER! Causes burns. Do not get in eyes, on skin or clothing.
Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash
thoroughly after handling.