

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 12/27/96
Product Name: **HYDROCHLORIC ACID, 37%**
Common Name: Muriatic Acid
Chemical Formula: HCl 37%, H₂O 63%
CAS No.: HCl : 7647-01-0 H₂O: 7732-18-5

SECTION 2: HAZARDOUS INGREDIENTS:

Corrosive and irritating to skin, eyes, mucous membranes. Inhalation may cause throat and lung damage. Swallowing will cause burns to mouth, throat, and stomach. Causes permanent eye damage. Toxicity is not the main hazard from the material.

SECTION 3: PHYSICAL DATA

Appearance and Odor:	clear, colorless fuming liquid; hydrogen chloride odor
Boiling point:(760 mmHg)	53°C (azeotrope 20.2% 109°C)
Vapor Pressure (mmHg):	190 mm Hg
Melting point:	-74°C
Density:	1.18 g/mL
Solubility:	infinitely soluble in water

SECTION 4: FIRE AND EXPLOSION DATA

Flash point:	n/a
Flammable limit:	n/a
Extinguishing Media:	water spray or fight surrounding fire
Unusual Fire and Explosion Hazards:	Not flammable. Reacts with metals to form flammable hydrogen gas. Releases corrosive gas when heated. Do not inhale fumes.

SECTION 5: REACTIVITY DATA

Stable X Unstable

Conditions to Avoid:	reactive with bases, metals, amines
Incompatibilities:	cyanides, sulfides, and formaldehyde
Hazardous Decomposition or byproducts:	n/a
Hazardous Polymerization:	n/a

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):	air: 5 ppm (ceiling)
Toxicity:	n/a

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage:	Isolate spill area. Ventilate well and neutralize with soda or lime. Flush neutralized spill to sewer with plenty of water.
Disposal:	n/a

SECTION 8: FIRST AID PROCEDURES

Eyes:	Wash with water. Get medical attention.
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Skin: Wash with water. Get medical attention.

Inhalation: Remove to fresh air. Get medical assistance.

Ingestion: Give water or milk. Give ice to suck. Do not induce vomiting. Get medical attention.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

not available

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SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Use only in proper hood or with suitable respirator to avoid inhalation of fumes.
Eye Protection: Eye wash; goggles
Protective Gloves: rubber gloves
Respiratory Protection: Protective clothing, emergency drench shower
Other Protective Gear:

SECTION 11: TRANSPORT INFORMATION

DOT classification: corrosive, UN 1789, PGII, Class 8
DOT pictograms: Corrosive 8 label