



Hydrochloric Acid

PRODUCT DESCRIPTION

DESCRIPTION:

Hydrochloric Acid (Muriatic Acid)–Industrial Grade 20°

APPLICATIONS AND BENEFITS

- Steel Processing: *Pickling and Cleaning of Sheet, Wire and Bar Steel Surfaces*
- Galvanizing: *Pickling and Cleaning of Steel Surfaces*
- Industrial Wastewater Treatment: *pH adjustment of receiving stream*
- Industrial Water Treatment: *pH adjustment of receiving stream*
- Asphalt Production: *Raw materials*

SAFETY

	0	1	2	3
HEALTH				▲
FLAMMABILITY	▲			
REACTIVITY	▲			
CONTACT				▲
	NONE	SLIGHT	MODERATE	SERIOUS

Lab Protective Equipment: Goggles & shield; lab coat & apron; vent hood; proper gloves

Personal Protective Equipment

Clothing: Avoid skin contact with hydrochloric acid. Wear chemical-resistant clothing and protective gloves. Nitrile and neoprene gloves are best suited for prolonged contact with hydrochloric acid, but PVC and rubber gloves are also acceptable. Check with the glove manufacturer for recommended use and duration guidelines.

Eye Protection: For solutions of hydrochloric acid with a pH less than or equal to 3.0, persons should wear, at a minimum, an eight-inch face shield. Splash-proof goggles are also recommended where mists of hydrochloric acid solution could contact the eyes.

Respiratory Protection (Respirators): Engineering controls should be implemented to reduce environmental concentrations to the permissible exposure level (5ppm). Respirators should be used when engineering and work practice controls are not feasible or being installed. Respiratory protection should be approved by NIOSH specifically for hydrochloric acid and used in accordance with the OSHA Respiratory Protection Standard, 29 CFR (Code of Federal Regulations) 1910.134. Under routine exposures where the ambient concentration of hydrochloric acid exceeds 5ppm, use an air purifying, full-face respirator equipped with acid gas cartridges appropriate for hydrochloric acid. For exposures of unknown concentrations of hydrochloric acid, such as uncontrolled releases, only a pressure-demand SCBA (self-contained breathing apparatus) is appropriate. Respirator use must be limited to individuals who have been medically cleared, adequately trained, and fitted for the respirator face piece. Companies are also referred to 29 CFR 1910.119, Process Safety Management of Highly Hazardous Chemicals Standard.

Thoroughly read and understand the information presented in the Material Safety Data Sheet prior to using Hydrochloric Acid (Muriatic Acid) in laboratory, pilot plant and/or full plant applications.

STORAGE AND HANDLING

Storage tanks and piping for Hydrochloric Acid (Muriatic Acid) should be constructed of materials recommended for corrosive products. FRP, PVC, HDPE and/or rubber are the materials of choice for piping and storage tanks. Metering pumps and other equipment that comes in contact with concentrated solutions of Hydrochloric

