



**Product Number: 710**

**Product Name: Muriatic Acid**

## **USE AND SAFETY INFORMATION**

**ATTENTION:** Always secure cap and transport bottle in upright position.

**Safety Note:** Muriatic Acid and its fumes are extremely destructive. They can damage or discolor most materials on contact, including metal, wood, natural stone, masonry, fabrics and vegetation. Always use caution and test before using. Wear protective clothing, rubber gloves and plastic safety glasses. Avoid splashing. If container shows signs of deterioration, dispose of properly.

**For Swimming Pools:** pH should be maintained between 7.2 and 7.6. To lower pH, add acid to pool as indicated by a pH test kit. Add approximately one pint per 10,000 gallons of pool water. Add Muriatic Acid to pool at the deepest end, away from metal parts or pool skimmer. Keep swimmers out of pool until acid is thoroughly mixed in water, as indicated by a pH level between 7.2 and 7.6. For swimmers' safety, test pH in area where acid was added to pool.

**For Etching Concrete:** Use a plastic container for mixing. Always pour acid slowly into water, never vice versa. Start with a dilution ratio of one-half pint muriatic acid to one gallon water. Strengthen gradually. Bubbling at concrete surface indicates solution is strong enough. Flush thoroughly with water after etching is complete - usually 2 to 3 minutes.

**DANGER!** CONTAINS HYDROCHLORIC ACID. CORROSIVE LIQUID AND VAPOR. Keep away from skin and eyes. Do not take internally. Avoid breathing vapor. Handle with extreme caution and keep container closed when not in use. Do not transfer liquid to unlabeled container. DO NOT MIX WITH CHLORINE-TYPE BLEACHES OR ANY OTHER CHEMICALS OR HOUSEHOLD PRODUCTS. Acid may react with chemicals, metals and other materials to form highly flammable or toxic gases which may be fatal. Never use acid in a confined area; use only when ventilation is equivalent to outdoor conditions. It may be necessary to use mechanical ventilation if normal air movement is not sufficient to disperse fumes completely.

**Storage & Disposal:** Keep container tightly capped. After opening, do not store for prolonged period near articles of value. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container. Thoroughly rinse empty container and dispose of with recyclables. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

**Health Hazards:** Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes eye, skin, nose and throat irritation. Avoid breathing vapor or spray mist. If you experience eye watering, headaches, dizziness or have difficulty breathing, increase fresh air or wear respiratory protection (NIOSH approved) or leave the area to obtain fresh air. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. May be harmful if absorbed through the skin.

**WARNING:** THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

**First Aid:** If swallowed, drink large quantities of water or milk, if available. DO NOT INDUCE VOMITING. If splashed on skin, wash with large amounts of water for at least 15 minutes. If splashed in eyes, flush immediately with running water for at least 15 minutes. If overcome by vapor, remove to fresh air. In all cases CALL A PHYSICIAN IMMEDIATELY.

Use only with adequate ventilation.

**KEEP OUT OF REACH OF CHILDREN.**