

Issue Date July 2012

Revision Date June 2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name ACID Magic®

Other Means of Identification

SDS # USA/SDS/I01

UN/ID No. UN1760

Product Code USA

Synonyms

The User Friendly Muriatic Acid!™*

*ACID Magic should not be used to aid or effect any pool disinfectant product or other water modifier.

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Cleans, clarifies and etches like full strength muriatic acid.*

Details of the Supplier of the Safety Data Sheet

Supplier Address Certol International, LLC.
6120 East 58th Avenue
Commerce City, Colorado 80022
www.Certol.com

Emergency Telephone Number

Company Phone Number(s)

Phone: 303-799-9401
Toll-Free: 1-800-843-3343
Fax: 303-799-9408

24 Hour Emergency Telephone

INFOTRAC: 1-800-535-5053 (North America)
INFOTRAC: 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 3
Specific Target Organ Toxicity (Single Exposure)	Category 3
Corrosive to Metals	Category 1

Signal Word

Danger.

Hazard Statements

Harmful if swallowed.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be corrosive to metals.

Appearance

Clear to Yellow Liquid.

Physical State

Liquid.

Odor

Mildly Pungent.



Precautionary Statements-Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust/fumes/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Keep only in original container.

Precautionary Statements-Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

IF SWALLOWED: Immediately call a Poison Control Center or doctor/physician.
Rinse mouth.

Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store in a dry, well-ventilated area away from heat and direct sunlight. Do not store near alkalis, highly flammable or oxidizing substances. Store in a closed, properly labeled, acid resistant container. Product must not contact chlorine bleach or cyanide.

Keep out of reach of children and pets.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms The User Friendly Muriatic Acid!™*

Chemical Name	CAS No.	Weight-%
Hydrochloric Acid	7647-01-0	Proprietary

The specific chemical identity of this composition is being withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

- Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Call a physician immediately.
- Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for 15 minutes. Remove contact lenses if present and rinse for an additional 15 minutes. Call a physician immediately.
- Ingestion** Rinse mouth. DO NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a Poison Control Center or physician immediately.
- Skin Contact** Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effect, both Acute and Delayed

Symptoms Remove to fresh air. If not breathing, give artificial respiration. Call a physician immediately.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not Determined.

Specific Hazards Arising from the Chemical

Contact with metals may evolve flammable hydrogen gas. The decomposition can lead to the release of toxic/corrosive gases and vapors.

Hazardous Combustion Products

Hydrogen Chloride.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required.

For Emergency Responders

Restrict access to spill area. Ventilate the area.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.
See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Soak up with inert absorbent material. Flush residue with water.
Neutralize with soda ash or other acid-neutralizing agent.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Wash face, hands, and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing vapors, mist or gas. Use only in well-ventilated areas.

Keep out of the reach of children and pets.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from direct sunlight. Keep away from heat. Store away from incompatible materials. Keep in properly labeled containers.
Store in a dry, well-ventilated area away from heat and direct sunlight. Do not store near alkalis, highly flammable or oxidizing substances. Store in a closed, properly labeled, acid resistant container. Product must not contact chlorine bleach or cyanide.

Keep out of the reach of children and pets.

Packaging Materials

Keep in original container.

Incompatible Materials

Alkalis. Strong oxidizing agents. Acetic anhydride. Oleum. Amines.
Vinyl acetate. Cyanides. Chlorine bleach.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric Acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

Appropriate Engineering Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits.
Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear goggles or chemical safety glasses. Face protection shield.

Skin and Body Protection

Wear water-resistant gloves.
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Under normal conditions, respirator is not normally required.
Use acid resistant respirator if concentration is high.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid.
Appearance	Clear to Yellow Liquid.
Color	Clear to Yellow.
Odor	Mildly Pungent.
Odor Threshold	Not Determined.

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
pH	< 1	
Melting Point / Freezing Point	< -58°F / < -50°C	
Boiling Point / Boiling Range	~ 212°F / ~ 100°C	
Flash Point	No Data.	
Evaporation Rate	< 1	(Butyl acetate = 1)
Flammability (Solid/Gas)	N/A - Liquid.	
Upper Flammability Limit	No Data.	
Lower Flammability Limit	No Data.	
Vapor Pressure	Not Determined.	
Vapor Density	> 1	(Air = 1)

9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Specific Gravity	1.11	@ 68°F (20°C)
Water Solubility	Completely Soluble.	
Solubility in Other Solvents	Not Determined.	
Partition Coefficient	Not Determined.	
Autoignition Temperature	Not Determined.	
Decomposition Temperature	Not Determined.	
Kinematic Viscosity	Not Determined.	
Dynamic Viscosity	Not Determined.	
Explosive Properties	Not Determined.	
Oxidizing Properties	Not Determined.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Reacts with carbon steel, aluminum and copper.

Hazardous Polymerization

Aldehydes & epoxides, in the presence of HCL, will cause hazardous polymerization.

Conditions to Avoid

Avoid high temperatures. Incompatible materials.

Incompatible Materials

Alkalis. Strong oxidizing agents. Acetic anhydride.
Oleum. Amines. Vinyl acetate. Cyanides. Chlorine bleach.

Hazardous Decomposition Products

HCL gas evolved from heating; hydrogen gas evolved by reaction.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation Avoid breathing vapors or mists.

Eye Contact Avoid contact with eyes.

Skin Contact No effect for healthy, intact skin.

Ingestion Harmful if swallowed.

11. TOXICOLOGICAL INFORMATION (continued)

Component Information

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Hydrochloric Acid 7647-01-0	700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 hr.

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric Acid 7647-01-0	N/A	Group 3	N/A	N/A

IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

STOT - Single Exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

Numerical Measures of Toxicity

Not Determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric Acid 7647-01-0	EC ₅₀ Selenastum capricornutum (Green Algae): 0.0492 mg/L/72 hr. (pH 5.3)	282: 96 hr. Gambusia affinis mg/L LC ₅₀ static	None Known	LC ₅₀ ; Species: Cragnon cragnon (Common shrimp, adult); Conditions; saltwater, renewal, 15° C; Concentration: 260 mg/L for 48 hr.

Persistence and Degradability

Not Determined.

Bioaccumulation

Not Determined.

Mobility

Not Determined.

Other Adverse Effects

Not Determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Dispose according to all local, state and federal regulations.

Contaminated Packaging

Dispose according to all local, state and federal regulations.

Steps to be Taken in Case Material is Released or Spilled

Deny access to the area. Ventilate the area well. Large spills or leaks should be cleaned up and controlled with an inert absorbent material. Flush surface with water and neutralize with soda ash or other acid-neutralizing agent. Prevent material from entering waterways. CERCLA reportable Quantity (RQ) is 5,000 lbs.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Quarts and gallons are shipped as Limited Quantity. Large sizes, 5 gallons or more, are shipped as class 8.

DOT

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, n.o.s. (Hydrochloric Acid)
Hazard Class	8
Packing Group	III

IATA

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, n.o.s. (Hydrochloric Acid)
Hazard Class	8
Packing Group	III

IMDG

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, n.o.s. (Hydrochloric Acid)
Hazard Class	8
Packing Group	III

NMFC

NMFC 44155.4 Class 70

15. REGULATORY INFORMATION

International Inventories

Not Determined.

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/
European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight %	SARA-Threshold Values %
Hydrochloric Acid	7647-01-0	Proprietary	1

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric Acid 7647-01-0	5000 lb.	N/A	N/A	X

Chemical Name	Hazardous Substances RQs	CERCLA /SARA RQ	Reportable Quantity (RQ)
Hydrochloric Acid 7647-01-0	5000 lb.	5000 lb.	RQ 5000 lb. final RQ RQ 2270 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric Acid 7647-01-0	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards 2	Flammability 0	Instability 0	Special Hazards Not Determined.
----------------------------	--------------------------	-------------------------	---

HMIS

Health Hazards Not Determined.	Flammability Not Determined.	Physical Hazards Not Determined.	Personal Protection Not Determined.
--	--	--	---

Issue Date	July 2012
Revision Date	June 2013
Revision Note	New format

Disclaimer

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

End of Safety Data Sheet