SAFETY DATA SHEET

Issue Date April 2017
Revision Date July 2018 **Version** 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name ACID Magic® Advanced Formula

Other Means of Identification

SDS # USA/SDS/I04

Product Code USA

UN/ID No. UN1760

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
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

Corrosive to Metals	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity (single exposure)	Category 3
AcuteToxicity- Oral	Category 4

Signal Word Danger

Physical & Chemical Hazards: May be corrosive to metal.

Health Hazards: May cause respiratory irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
May be corrosive to metals.

Environmental Hazards: See Section 12.

GHS Label Element

Hazard Statements

H290	May be corrosive to metal.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statements:

Prevention	P202	Do not handle until all safety precautions have been read and understood.
	P280	Wear eye protection.
	P260	Do not breathe dust/fumes/gas/mist/vapors/spray.
Response	P301	**IF SWALLOWED:**Immediately call a Poison Control Center or doctor/physician. Rinse mouth.
	P304	**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or a doctor/physician.
Storage	P403	Store in a well-ventilated place.
	P406	Store in a corrosive resistant container.
	P411	Store at temperatures not below 32°F (0°C).
Disposal	P501	Dispose according to all local, state and federal regulations.

Hazard(s) not otherwise classified(HNOC): Not determined.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Hydrochloric Acid	7647-01-0	**
Others	Various	***

** The exact percentage is a trade secret.

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

4. FIRST AID MEASURES

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.

Eye Contact Immediately flush with plenty of water. Remove any contact lenses and continue flushing for several minutes and call a physician immediately.

Ingestion Rinse mouth and drink plenty of water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious. Call a physician or Poison Control Center immediately.

Skin Contact Wash off immediately with plenty of water for several minutes. Take off contaminated clothing. Wash contaminated clothing before reuse.If skin irritation or rash occurs: get medical attention.

Symptoms Inhalation of fumes or acid mist can cause irritation and corrosive burns to the upper respiratory tract. Ingestion may cause burning of the mouth, throat, and digestion tract.

Note to Physician 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

None 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.

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. Store in a closed, properly labeled, and acid resistant container. Avoid storing below 32°F (0°C). Do not store near alkalis, highly flammable or oxidizing substances. Product must not contact chlorine bleach or cyanide.

Packaging Material

Keep in orignial container.

Incompatible Materials

Do not store near alkalis, highly flammable or oxidizing substances. Product must not contact chlorine bleach or cyanide.

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

Exposure Guidelines

See above occupational exposure limits.

Appropriate Engineering Controls

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**	Not Determined

Property	Values	Property	Values
pH	< 1 (25°C / 77°F)	**Specific Gravity**	1.11 (60°F / 15.5°C)
Melting Point / Freezing Point	Not Determined.	**Water Solubility**	Completely Soluble.
Boiling Point / Boiling Range	212°F / 100°C	**Partition Coefficient**	Not Determined.
Flash Point	Not Determined.	**Autoignition Temperature**	Not Determined.
Evaporation Rate	< 1	**Decomposition Temperature**	Not Determined.
Flammability (Solid/Gas)	N/A - Liquid	**Kinematic Viscosity**	Not Determined.
Flammability Limits In Air	Not Determined.	**Dynamic Viscosity**	Not Determined.
Vapor Pressure	Not Determined.	**Explosive Properties**	Not Explosive.
Vapor Density	> 1	**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. Avoid storing below 32°F (0°C).

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

Routes of Exposure — Eye contact. Skin contact. Inhalation. Ingestion.

Information on Likely Routes of Exposure

Ingestion — Harmful if swallowed.

Inhalation — Avoid breathing vapors or mists.

Skin Contact — No effect for healthy, intact skin. Slight to moderate irritant in some individuals.

Eye Contact — Avoid contact with eyes.

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.

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

Carcinogenicity — 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

ACGIH (The American Conference of Governmental Industrial Hygienists)

A4- Not Classifiable as a Human Carcinogen.

IARC(International Agency for Research on Cancer)

Group 3 - Not Carcinogenic to Humans

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 capricornnutum (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

Clean Water Act (CWA)

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	Flammability	Instability	Special Hazards
3	0	0	Not Determined.

HMIS

Health Hazards	Flammability	Physical Hazards	Personal Protection
3	0	0	0

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Disclaimer

This Safety Data Sheet was prepared to comply with the current OSHA hazard Communication Standard adoption of the Globally Harmonized System of Classifcation and Labeling of Chemicals (GHS). 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 satefy and heatlh of employees.

End of Safety Data Sheet