



## SAFETY DATA SHEET

### Acid Magic® Advanced Formula

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

#### 1. Identification

##### Product identifier

**Product name** Acid Magic® Advanced Formula

**Product number** USA32, USA128

**Synonyms; trade names** The User Friendly Muriatic Acid!™\*

##### Recommended use of the chemical and restrictions on use

**Application** Cleans, clarifies, and etches like full strength muriatic acid. \*ACID Magic should not be used to aid or effect any pool disinfectant any pool disinfectant product or other water modifier.

##### Details of the supplier of the safety data sheet

**Manufacturer** MICROCARE, LLC  
6120 E 58th Ave  
Commerce City, CO 80022  
United State of America  
[www.microcare.com/certol](http://www.microcare.com/certol)  
Tel: +1 303 799 9401 Toll Free +1 800 843 3343

##### Emergency telephone number

**Emergency telephone** INFOTRAC 1-800-535-5053 (U.S.A. and CANADA)  
1-352-323-3500 (from anywhere in the world)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Met. Corr. 1 - H290

**Health hazards** Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

**Environmental hazards** Not Classified

##### Label elements

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H290 May be corrosive to metals.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

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<b>Precautionary statements</b>	<p>P234 Keep only in original container.</p> <p>P260 Do not breathe vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P406 Store in corrosive resistant container with a resistant inner liner.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** Hydrochloric Acid, Lactic Acid

### 3. Composition/information on ingredients

#### Mixtures

<b>Hydrochloric Acid</b> CAS number: 7647-01-0	<b>Proprietary</b>
<b>Lactic Acid</b> CAS number: 79-33-4	<b>Proprietary</b>

#### Composition

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Call a doctor or Poison Control Center immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.
<b>Skin Contact</b>	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if any discomfort continues. Get medical attention if symptoms are severe or persist.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. Continue to rinse.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	May cause chemical burns in mouth and throat.
<b>Eye contact</b>	Exposed individuals may experience eye tearing, redness, and discomfort.

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### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

#### Special hazards arising from the substance or mixture

**Specific hazards** In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air. Corrosive gases or vapors.

**Hazardous combustion products** Hydrogen chloride (HCl).

#### Advice for firefighters

**Protective actions during firefighting** 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** For personal protection, see Section 8.

**For non-emergency personnel** Restrict access to spill area. Ventilate area.

#### Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Stop leak if safe to do so. Neutralize spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. After removal, flush contaminated area thoroughly with water.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing gas, fume, vapours or spray. Use only in well-ventilated areas. Keep out of the reach of children.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight. Keep away from heat. Store away from incompatible materials (see Section 10). Store in tightly-closed, original container in a well-ventilated place. Store at temperatures above 0°C/32°F.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

Hydrochloric Acid

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Ceiling exposure limit: OSHA 5 ppm 7 mg/m<sup>3</sup>

Ceiling exposure limit: ACGIH 2 ppm 2.98 mg/m<sup>3</sup>

A4

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

### Exposure controls

<b>Appropriate engineering controls</b>	Provide eyewash station.
<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield.
<b>Other skin and body protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practices.
<b>Respiratory protection</b>	No specific requirements are anticipated under normal conditions of use. If ventilation is inadequate, suitable respiratory protection must be worn.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Characteristic.
<b>pH</b>	pH (concentrated solution): <1
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	100°C/212°F
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	< 1
<b>Flammability (solid, gas)</b>	N/A-liquid
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1
<b>Relative density</b>	1.11 @ 15.5°C/60°F
<b>Solubility(ies)</b>	Completely soluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidizing properties</b>	Not available.

## 10. Stability and reactivity

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<b>Reactivity</b>	Not reactive under normal conditions.
<b>Stability</b>	Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	Reacts with carbon steel, aluminum, and cooper. Aldehydes and epoxides in the presences of HCl will cause hazardous polymerization.
<b>Conditions to avoid</b>	Avoid exposure to high temperatures or direct sunlight. Avoid freezing.
<b>Materials to avoid</b>	Alkalis. Strong oxidizing agents. Acetic anhydride. Oleum. Amines. Vinyl acetate. Cyanides. Chlorine bleach.
<b>Hazardous decomposition products</b>	HCl gas evolved from heating; hydrogen gas evolved by reaction.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 4,426.63

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 14.76

#### Toxicological information on ingredients.

##### Hydrochloric Acid

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 900.0

Species Rabbit

ATE oral (mg/kg) 900.0

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

##### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

##### Citric Acid

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 10,000.0

Species Rat

ATE oral (mg/kg) 10,000.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 20,000.0

Species Rabbit

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ATE dermal (mg/kg)      20,000.0

### 12. Ecological information

<b>Ecotoxicity</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	No data available.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	Not available.
<b>Partition coefficient</b>	Not available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	No data available.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	No data available. Because of the low pH of this product, it would be expected to produce ecotoxicity upon exposure to aquatic systems and aquatic organisms. Most aquatic species do not tolerate pH lower than 5.5 for any extended period.

### 13. Disposal considerations

#### Waste treatment methods

<b>General information</b>	The generation of waste should be minimized or avoided wherever possible. Restrict access to spill area. Ventilate area. For large spills: Absorb with inert material. Neutralize spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. After removal, flush contaminated area thoroughly with water. Do not allow runoff to sewer, waterway or ground. Final CERCLA RQ: 5000 lbs
<b>Disposal methods</b>	Dispose of contents/container in accordance with national regulations. Dispose of contents/container in accordance with regional regulations. Dispose of contents/container in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 14. Transport information

<b><u>UN Number</u></b>	
<b>UN No. (IMDG)</b>	1760
<b>UN No. (ICAO)</b>	1760
<b><u>UN proper shipping name</u></b>	
<b>Proper shipping name (TDG)</b>	LIMITED QUANTITY
<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid), 8, PG III
<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid), 8, PG III
<b>Proper shipping name (DOT)</b>	LIMITED QUANTITY
<b><u>Transport hazard class(es)</u></b>	
<b>IMDG Class</b>	8
<b>ICAO class/division</b>	8
<b><u>Packing group</u></b>	

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IMDG packing group III

ICAO packing group III

### Environmental hazards

#### Environmentally Hazardous Substance

No.

### Special precautions for user

EmS F-A, S-B

DOT reportable quantity RQ: Hydrogen chloride (24592.3813 lbs)

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## 15. Regulatory information

### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The following ingredients are listed:

*Hydrochloric Acid*

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed:

*Hydrochloric Acid*

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The following ingredients are listed:

*Hydrochloric Acid*

#### **SARA 313 Emission Reporting**

The following ingredients are listed:

*Hydrochloric Acid*

*Malic Acid*

#### **CAA Accidental Release Prevention**

The following ingredients are listed:

*Hydrochloric Acid*

#### **SARA (311/312) Hazard Categories**

Reactivity  
Acute  
Chronic

#### **OSHA Highly Hazardous Chemicals**

The following ingredients are listed:

*Hydrochloric Acid*

### US State Regulations

#### **California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed:

*Hydrochloric Acid*

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### California Directors List of Hazardous Substances

The following ingredients are listed:

*Hydrochloric Acid*

### Massachusetts "Right To Know" List

The following ingredients are listed:

*Hydrochloric Acid*

### Rhode Island "Right To Know" List

The following ingredients are listed:

*Hydrochloric Acid*

### Minnesota "Right To Know" List

The following ingredients are listed:

*Hydrochloric Acid*

### New Jersey "Right To Know" List

The following ingredients are listed:

*Hydrochloric Acid*

### Pennsylvania "Right To Know" List

The following ingredients are listed:

*Hydrochloric Acid*

### Inventories

#### Canada - DSL/NDSL

DSL

#### US - TSCA

All the ingredients are listed or exempt.

### 16. Other information

<b>Revision date</b>	9/14/2022
<b>Revision</b>	8
<b>Supersedes date</b>	6/6/2022
<b>SDS No.</b>	INDUSTRIAL-USA-I08
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation.
<b>NFPA - health hazard</b>	Extremely hazardous, serious injury. (3)
<b>NFPA - flammability hazard</b>	Will not burn. (0)
<b>NFPA - instability hazard</b>	Normally stable. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.