### 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>Product Identifier</strong></th>
<th><strong>Other Means of Identification</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>ACID Magic®</td>
</tr>
<tr>
<td><strong>SDS #</strong></td>
<td>USA/SDS/I03</td>
</tr>
<tr>
<td><strong>Product Code</strong></td>
<td>USA</td>
</tr>
<tr>
<td><strong>UN/ID No.</strong></td>
<td>UN1760</td>
</tr>
<tr>
<td><strong>Synonyms</strong></td>
<td>The User Friendly Muriatic Acid!™*</td>
</tr>
</tbody>
</table>

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

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

**Details of the Supplier of the Safety Data Sheet**

<table>
<thead>
<tr>
<th><strong>Supplier Address</strong></th>
<th>Certol International, LLC.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6120 East 58th Avenue</td>
</tr>
<tr>
<td></td>
<td>Commerce City, Colorado 80022</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.Certol.com">www.Certol.com</a></td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>303-799-9401</td>
</tr>
<tr>
<td><strong>Toll-Free</strong></td>
<td>1-800-843-3343</td>
</tr>
<tr>
<td><strong>Fax</strong></td>
<td>303-799-9408</td>
</tr>
</tbody>
</table>

**24 Hour Emergency Telephone**

| INFOTRAC: 1-800-535-5053 (North America) |
| INFOTRAC: 1-352-323-3500 (International) |
2. HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Physical &amp; Chemical Hazards</th>
<th>Health Hazards</th>
<th>Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosive to Metals</td>
<td>May be corrosive to metals.</td>
<td>See Section 12.</td>
</tr>
<tr>
<td>Acute Toxicity-Oral</td>
<td>May cause respiratory irritation.</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (single exposure)</td>
<td>May cause drowsiness or dizziness.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be corrosive to metals.</td>
<td></td>
</tr>
</tbody>
</table>

Signal Word

- Danger.
- H290
- H302
- H335
- H336

Precautionary Statements:

- 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.
- 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.
- P403: Store in a well-ventilated place.
- P406: Store in a corrosive resistant container.
- P411: Store at temperatures not below 32°F (0°C).
- P501: Dispose according to all local, state and federal regulations.

GHS Label Element

Hazard Statements

- H290: May be corrosive to metals.
- H302: Harmful if swallowed.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>**</td>
</tr>
<tr>
<td>Others</td>
<td>Various</td>
<td>***</td>
</tr>
</tbody>
</table>

** 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
Use personal protective equipment as required. Restrict access to spill area. Ventilate the area. Prevent entry into waterways, sewers, basements or confined areas.

Methods and Material for Containment and Cleaning Up
Prevent further leakage or spillage if safe to do so. 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
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
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 original 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
See above occupational exposure limits. Eyewash stations.

Appropriate Engineering Controls
Wear goggles or chemical safety glasses. Face protection shield. Wear water-resistant gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact. Under normal conditions, respirator is not normally required. Use acid resistant respirator if concentration is high. Handle in accordance with good industrial hygiene and safety practices.

Individual Protection Measures, such as Personal Protective Equipment
Wear appropriate engineering controls. Wear gloves. Wear proper clothing. Use acid-resistant respirator if necessary. Wash hands after handling.

Eye/Face Protection
Skin and Body Protection
Respiratory Protection
General Hygiene Considerations

Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH
---|---|---|---
Hydrochloric Acid 7647-01-0 | Ceiling: 2 ppm | (vacated) Ceiling: 5 ppm | IDLH: 50 ppm
 | Ceiling: 7 mg/m³ | Ceiling: 5 ppm | Ceiling: 5 ppm
 | Ceiling: 7 mg/m³ | |
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>&lt; 1 (25°C / 77°F)</td>
<td>Specific Gravity</td>
<td>1.11 (60°F / 15.5°C)</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>Not Determined.</td>
<td>Water Solubility</td>
<td>Complete Soluble.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>212°F / 100°C</td>
<td>Partition Coefficient</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Determined.</td>
<td>Autoignition Temperature</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1</td>
<td>Decomposition Temperature</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Flammability (Solid/Gas)</td>
<td>N/A - Liquid.</td>
<td>Kinematic Viscosity</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Flammability Limits In Air</td>
<td>Not Determined.</td>
<td>Dynamic Viscosity</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined.</td>
<td>Explosive Properties</td>
<td>Not Determined.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1</td>
<td>Oxidizing Properties</td>
<td>Not Determined.</td>
</tr>
</tbody>
</table>

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).
- 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: Avoid breathing vapors or mists.
  - Inhalation: Harmful if swallowed.
  - Skin Contact: No effect for healthy, intact skin.
  - Eye Contact: Avoid contact with eyes.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD₅₀</th>
<th>Dermal LD₅₀</th>
<th>Inhalation LC₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>700 mg/kg (Rat)</td>
<td>&gt; 5010 mg/kg (Rabbit)</td>
<td>3124 ppm (Rat) 1 hr.</td>
</tr>
</tbody>
</table>

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.

Carcinogenicity Table

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>N/A</td>
<td>Group 3</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid 7647-01-0</td>
<td>EC₅₀ Selenastum capricornutum (Green Algae): 0.0492 mg/L/72 hr. (pH 5.3)</td>
<td>282: 96 hr. Gambusia affinis mg/L LC₅₀ static</td>
<td>None Known</td>
<td>LC₅₀, Species: Cragon cragon (Common shrimp, adult); Conditions; saltwater, renewal, 15° C; Concentration: 260 mg/L for 48 hr.</td>
</tr>
</tbody>
</table>

**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

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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>SARA-Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>Proprietary</td>
<td>1</td>
</tr>
</tbody>
</table>

**Clean Water Act (CWA)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>5000 lb.</td>
<td>N/A</td>
<td>N/A</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>5000 lb.</td>
<td>5000 lb.</td>
<td>RQ 5000 lb. final RQ</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

### NFPA

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

### HMIS

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
</table>

**Issue Date**: June 2016

**Revision Date**: April 2017

**Revision Note**: New format.

**Disclaimer**:

This Safety Data Sheet was prepared to comply with the current OSHA hazard Communication Standard adoption of the Globally Harmonized System of Classification 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 safety and health of employees.

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End of Safety Data Sheet