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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Single Exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Corrosive to Metals</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

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™*

<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>Proprietary</td>
</tr>
</tbody>
</table>

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
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>Ceiling: 2 ppm</td>
<td>(vacated) Ceiling: 5 ppm</td>
<td>IDLH: 50 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td>(vacated) Ceiling: 7 mg/m³</td>
<td>Ceiling: 5 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling: 7 mg/m³</td>
<td>Ceiling: 7 mg/m³</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks * Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to Yellow Liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Clear to Yellow</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mildly Pungent</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1</td>
<td></td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>&lt; -58°F / &lt; -50°C</td>
<td></td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>~ 212°F / ~ 100°C</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1</td>
<td>(Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (Solid/Gas)</td>
<td>N/A - Liquid</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1</td>
<td>(Air = 1)</td>
</tr>
</tbody>
</table>
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

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.
Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD&lt;sub&gt;50&lt;/sub&gt;</th>
<th>Dermal LD&lt;sub&gt;50&lt;/sub&gt;</th>
<th>Inhalation LC&lt;sub&gt;50&lt;/sub&gt;</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>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<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>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<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</td>
<td>EC&lt;sub&gt;50&lt;/sub&gt; Selenastum capricornutum (Green Algae): 0.0492 mg/L/72 hr. (pH 5.3)</td>
<td>282: 96 hr. Gambusia affinis mg/L LC&lt;sub&gt;50&lt;/sub&gt; static</td>
<td>None Known</td>
<td>LC&lt;sub&gt;50&lt;/sub&gt;: Species: Cragnon cragnon (Common shrimp, adult); Conditions: saltwater, renewal, 15° C; Concentration: 260 mg/L for 48 hr.</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
<td></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**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Corrosive Liquid, n.o.s. (Hydrochloric Acid)</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Corrosive Liquid, n.o.s. (Hydrochloric Acid)</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN1760</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Corrosive Liquid, n.o.s. (Hydrochloric Acid)</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
</tbody>
</table>

**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

<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>

CWA (Clean Water Act)

<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>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

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>
<tr>
<td>7647-01-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>Not Determined.</td>
</tr>
</tbody>
</table>

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

**Issue Date**
July 2012

**Revision Date**
June 2013

**Revision Note**
New format

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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