SAFETY DATA SHEET

Acid Magic® Advanced Formula

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

1. Identification

Product identifier

Product name Acid Magic® Advanced Formula

Product number USA32, USA128

Synonyms; Common Names The User Friendly Muriatic Acid!™*

Recommended use and restrictions on use

Recommended use 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
Tel: +1 303 799 9401 Toll Free +1 800 843 3343

Emergency telephone number

Emergency telephone

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

2. Hazard identification

Classification of the substance or mixture

Physical hazards Met. Corr. 1 - H290

Health hazards Acute Tox. 4 - H332 Eye Dam. 1 - H318 STOT SE 3 - H335

Environmental hazards Not Classified

Label elements

Hazard pictograms

Signal word Danger

Hazard statements

H290 May be corrosive to metals.
H332 Harmful if inhaled.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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Precautionary statements

P234 Keep only in original packaging.
P260 Do not breathe vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material-damage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P406 Store in a corrosion-resistant container with a resistant inner liner.
P501 Dispose of contents/ container in accordance with national regulations.

Contains HYDROCHLORIC ACID, LACTIC ACID

3. Composition/information on ingredients

Mixtures

HYDROCHLORIC ACID **10-30%**

CAS number: 7647-01-0

Classification
Met. Corr. 1 - H290
Acute Tox. 4 - H302
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

MALIC ACID **1-5%**

CAS number: 6915-15-7

Classification
Eye Irrit. 2A - H319

LACTIC ACID **1-5%**

CAS number: 79-33-4

Classification
Skin Corr. 1C - H314
Eye Dam. 1 - H318

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CITRIC ACID	1-5%
CAS number: 77-92-9	
Classification Eye Irrit. 2A - H319	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation 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.

Ingestion 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.

Skin contact 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.

Eye contact 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

Inhalation Spray/mists may cause respiratory tract irritation.

Ingestion May cause chemical burns in mouth and throat.

Eye contact Exposed individuals may experience eye tearing, redness, and discomfort.

Indication of any 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.

Specific hazards arising from the hazardous product

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

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.

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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

Ceiling exposure limit: ACGIH 2 ppm 2.98 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering controls Provide eyewash station.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Other skin and body protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Hygiene measures Handle in accordance with good industrial hygiene and safety practices.

Respiratory protection 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

Appearance Liquid

Colour Colourless to pale yellow.

Odour Characteristic.

pH pH (concentrated solution): <1

Melting point -50°C/-58°F

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Initial boiling point and range	100°C/212°F
Flash point	Not available.
Evaporation rate	< 1
Flammability (solid, gas)	N/A-liquid
Vapour pressure	Not available.
Vapour density	> 1
Relative density	1.11 @ 15.5°C/60°F
Solubility(ies)	Completely soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.

10. Stability and reactivity

Reactivity	Not reactive under normal conditions.
Stability	Stable under the prescribed storage conditions.
Possibility of hazardous reactions	Reacts with carbon steel, aluminum, and cooper. Aldehydes and epoxides in the presences of HCl will cause hazardous polymerization.
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Avoid freezing.
Materials to avoid	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 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

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Acute toxicity oral (LD_{50} 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_{50} mg/kg)	10,000.0
Species	Rat
ATE oral (mg/kg)	10,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit
ATE dermal (mg/kg)	20,000.0

12. Ecological information

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

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bioaccumulative potential Not available.

Partition coefficient Not available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects 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.

Information on other hazards

13. Disposal considerations

Waste treatment methods

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General information	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
Disposal methods	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

UN number

UN No. (IMDG)	1760
UN No. (ICAO)	1760

UN proper shipping name

Proper shipping name (TDG)	LIMITED QUANTITY
Proper shipping name (IMDG)	CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid), 8, PG III
Proper shipping name (ICAO)	CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid), 8, PG III
Proper shipping name (DOT)	LIMITED QUANTITY

Transport hazard class(es)

IMDG class	8
ICAO class/division	8

Packing group

IMDG packing group	III
ICAO packing group	III

Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

Special precautions for user

EmS	F-A, S-B
DOT reportable quantity	RQ: Hydrogen chloride (24592.3813 lbs)
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

Inventories

Canada – DSL/NDSL
DSL

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US - TSCA

All the ingredients are listed or exempt.

16. Other information

Revision date	2023-03-16
Revision	9
Supersedes date	2022-09-14
SDS number	AM-USA
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation.