

Material Safety Data Sheet

ACID Magic® *Struvite*

The User Friendly Muriatic Acid!™* *Control*

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

< 5% HCl

Product Number: USA

Certol®

International

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Certol International, LLC urges each recipient of the MSDS to read it carefully to understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention, as needed to understand the data in the MSDS.

To promote safe handling, each recipient of the MSDS should: (1) notify anyone using the material of the MSDS information regarding hazards or safety; (2) furnish the MSDS information to customers purchasing the product; and (3) request the customers furnish MSDS information to all users.

Emergency and First Aid Procedures

Swallowing: Rinse mouth and throat thoroughly with water. Drink large amounts of water. DO NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention immediately.

Skin Contact: Wash skin with flowing water or shower. If irritation persists, seek medical attention.

Inhalation: Remove the affected victim from exposure. Administer artificial respiration if breathing stopped. Seek medical attention immediately.

Eye Contact: Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

1. Identification

Product Name: ACID Magic®

Chemical Name: Blend

2. Hazards

PRINCIPAL HAZARDOUS COMPONENTS	CAS #
Hydrochloric Acid	7647-01-0

3. Physical Data

Appearance: Clear to yellowish liquid

Odor: Slightly pungent

Solubility in Water by Wt.: Complete

Boiling Point: Approximately 212°F (100°C)

Freezing Point: Below -58°F (-50°C)

Vapor Density (Air=1): > 1

Evaporation Rate (BuAc=1): < 1

Specific Gravity: 1.11 @ 68°F (20°C)

pH Concentrate: Less than 1

4. Fire and Explosion Hazard

Flash Point: No data

Flammable Limits in Air: No data

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective equipment.

Unusual Fire and Explosion Hazards: Product is corrosive and produces hydrogen chloride fumes when heated. May react with many metals liberating hydrogen gas, which can form explosive mixtures.

Extinguishing Media: Dry chemical, foam, water or carbon dioxide

5. Health Hazard Data

COMPONENT	OSHA/ PEL	ACGIH/ TLV
Hydrochloric Acid	5 ppm	5 ppm

Effect of Overexposure:

Swallowing: May be fatal if ingested. May cause severe burns to mouth, throat, and gastrointestinal tract.

Skin Contact: No effect for healthy, intact skin. May cause irritation.

Inhalation: Overexposure will cause irritation or burns to respiratory tract.

Eye Contact: Corrosive. May cause redness, burns, and irreversible damage to eye.

Carcinogenicity:

NTR: No

IARC: No

OSHA: No

6. Reactivity Data

Stability: Stable at normal conditions

Conditions to Avoid: Avoid high temperatures and incompatible chemicals.

Incompatibility (Materials to Avoid): Alkalis, strong oxidants, acetic anhydrides, oleum, amines, and vinyl acetate. Reacts with carbon steel, aluminum, and copper.

Hazardous Combustion or Decomposition Products: HCl gas evolved from heating; hydrogen gas evolved by reaction to metals

Hazardous Polymerization: Will not occur

7. Spill, Leak, and Waste Disposal Procedures

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. Reportable Quantity (RQ) is 8,000 lbs.

Waste Disposal Method: Dispose according to all local, state, and federal regulations.

8. Handling and 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 hydrogen sulfide gas, chlorine bleach, or cyanide.

Keep out of reach of children.

9. Special Protection Information

Respiratory Protection: Not normally required for a limited quantity. Use acid resistant respirator if concentration is high.

Ventilation: Use in well-ventilated area to eliminate vapors. Mechanical exhaust is not normally required unless used in a confined area and/or if individual has a sensitive respiratory system. *Note: Vapor build-up can cause corrosion of metal surfaces in treatment area.*

Protective Gloves: Water-resistant gloves

Eye Protection: Safety glasses, safety goggles and/or face shield depending on application

Protective Clothing: Where contact may occur, wear protective clothing.

Other Protective Clothing or Equipment: An eyewash station should be nearby and ready for use.

10. Regulation Information

Status On Substance Lists: None known

Federal EPA: None

State Right-To-Know: None known

11. Transportation Data

Proper Shipping Name: Corrosive Liquid, n.o.s. (contains Hydrochloric Acid)

DOT: UN1760, Class 8, P.G. III

Quantity: Quarts and gallons are shipped as ORM-D Consumer Commodity. Larger sizes, 5 gallons or more, are shipped as a Corrosive.

CHEMICAL WARNING LABELS

Required on containers, tubs, and bottles, which are filled from original containers with potentially hazardous substances

Hazard rating corresponding to the NFPA Rating System:

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant

NFPA HAZARD RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

Chemical Warning Label - Certol International, LLC

ACID Magic®

No wall reference is necessary

Product Name: ACID Magic®

Hazardous Chemicals: Hydrochloric acid

Personal Protection: Gloves, safety glasses, safety goggles, and/or face shield depending on application

ROUTE OF ENTRY	HEALTH HAZARD	FIRE HAZARD
<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Irritant	<input type="checkbox"/> Below 73°F (23°C)
<input checked="" type="checkbox"/> Ingestion	<input type="checkbox"/> Carcinogen	<input type="checkbox"/> Below 100°F (38°C)
<input checked="" type="checkbox"/> Skin/eye absorption	<input type="checkbox"/> Toxic	<input type="checkbox"/> Above 100°F (38°C) & not > 200°F (93°C)
	<input type="checkbox"/> Sensitizer	<input type="checkbox"/> Above 200°F (93°C)
	<input type="checkbox"/> Normal Material	<input checked="" type="checkbox"/> Will not burn

TARGET ORGAN EFFECTS

- Respiratory
- Heart
- Kidney
- Eyes
- Skin
- Prostate
- Blood
- Liver
- CNS
- Other

PHYSICAL HAZARD

- Oxidizer
- Acid
- Alkali
- Corrosive
- Use no water
- Radioactive

REACTIVITY

- May detonate
- Shock and heat may detonate
- Violent chemical change
- Unstable if heated
- Stable

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.

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT SOURCE AND IDENTITY

Supplier identity and address	Product description:	Date: April 7, 2008
Guard Products 980 77th Avenue Oakland, CA 94621	Name: ST 2525 <i>Struvite</i>	
	Purpose: Helps in scale removal	
	Proprietary Formula	Code: GP ST2520
Emergency phone: 800-463-9300	Product information:	800-369-8056

SECTION 2: SHIPPING CLASSIFICATION

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	
Not regulated	
Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-4:	Not applicable
Reportable Quantity ("RQ") per 49 CFR 172.101:	None or not possible in one non-bulk package

SECTION 3: SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION

Reporting required by Title III Sec 313, 40 CFR 372, 29 CFR 1910.1200		Exposure Limit Values			
CAS#	313	Material or Component	RQ#	TWA	STEL
77-92-9	No	Food Grade Organic Acid	None	Not established	
Contains materials which can contribute to eye and skin irritation but for which no exposure limits have been established.					

No component is listed in "Threshold Limit Values and Biological Exposure indices for 2008" from ACGIH except as noted above. Components listed in TITLE III SEC 313 (EPCRA) are indicated by "Yes" above.

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.

Emergency overview: Acidic scale remover. Follow label directions. Do not store in metal containers. Keep out of eyes and off skin. Keep containers closed when not in use.

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	NA	NA	NA	

HMIS Hazard ratings: Health 1 Fire 0 Instability 0 Other B (Glasses, gloves)

NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special None

Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

Other than those listed, there are no ingredients with ACGIH exposure limits present at 1% or above, and no known carcinogens present at 0.1% or above.

Note: HMIS and NFPA ratings are subjective evaluations of hazards and can differ between preparers. They are intended and useful only as a rapid approximation of the hazards rated.

Threshold limit value: Not established on product.

TOSCA Status: All ingredients listed CERCLA RQ: See Sec 2.

California Prop. 65: None Ingredients on cancer lists: None

Reproductive implications: None

SECTION 4: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid.	Flash point deg. F (cc):	None
Odor:	Nil	Initial boiling point deg. C:	Not determined
Specific gravity:	>1	Vapor pressure 20 deg C:	NA
pH reaction:	Approx. 3-6 (not a specification)	Freezing point deg. C:	NA
		Solubility in water:	100%

California Rule 102 (66): Contains no photo chemically active materials.

SECTION 5: SAFE HANDLING AND STORAGE

General	Do not store in metal containers. Keep lid on containers when not in use. Wipe up spills promptly. Keep off of skin and out of eyes. Use standard industrial good practices.
Protective equipment	
Eyes	Safety glasses or goggles should be worn if there is possibility of eye contact.
Skin	Impermeable gloves such as rubber, PVC or neoprene are recommended.
Respiratory protection	None normally required.
Ventilation	No special ventilation is usually required.
Other	None

SECTION 6: HEALTH SAFETY DATA

Effects of acute or chronic over exposure	
Eyes	Irritating to eyes. No chronic effects known.
Skin	Can cause irritation from repeated exposure.
Inhalation	Vapors or mists can be irritating, cause dizziness and disorientation.
Ingestion	Do not take internally. Not a likely source of chronic exposure.

SECTION 7: PHYSICAL STABILITY AND REACTIVITY DATA

Explosive limits	Flash point:	See Sec 4
Lower None	Upper None	Conditions to avoid: None known.
Chemical stability	Stable	Hazardous decomposition products: Combustion produces oxides of carbon.
Hazardous polymerization	Cannot occur	Incompatibility: alkaline materials.

SECTION 8: EMERGENCY RESPONSE PROCEDURES

Fire	Extinguishing media	Use equipment appropriate to main cause of fire.
	Special procedures	None
	Unusual hazards	None
First Aid	Eyes	Flush with water for at least 15 min. Seek medical attention. See Sec. 6.
	Skin	Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.
	Inhalation	If affected, remove individual to fresh air, get medical attention at once if there is any discomfort.
	Ingestion	Dilute by giving large amounts of milk or water. Get medical attention immediately. Do not induce vomiting.
Spills	Small / large spill	Immediately remove uninvolved personnel. Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills. Large spills may be neutralized with sodium carbonate or other alkaline material. Keep out of waterways and storm sewers.

Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Since conditions of use are beyond our control we make no warranties, expressed or implied.
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