

SAFETY DATA SHEET

1. Identification

Product identifier Aqua Guard Muriatic Acid

Other means of identification

SDS number AUC-002

Synonyms Hydrochloric acid * Muratic acid

Recommended use Water Treatment; Swimming Pool Chemical; Masonry Surface, Grout Cleaner, pH Adjuster

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Allied Universal Corporation Address 3901 N.W. 115th Avenue

Miami, FL 33178

United States

Telephone General:

General: 1-305-888-2623 24-Hour alert: 1-786-522-0207

Website www.allieduniversal.com

E-mail Not available.

Contact person Operations Department

Emergency phone number CHEMTREC 1-800-424-9300 (US/Canada)

+01 703-527-3887 (International)

Category 1

Supplier Refer to Manufacturer

2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Acute toxicity, inhalationCategory 4Skin corrosion/irritationCategory 1

Serious eye damage/eye irritation

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. May be corrosive to metals. Causes severe skin burns and eye damage.

Harmful if inhaled. May cause respiratory irritation.

Precautionary statement

Prevention Keep only in original packaging. Do not breathe mist. Wash thoroughly after handling. Do not

eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear

protective gloves/clothing and eye/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off

immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see this label). Wash contaminated

clothing before reuse. Absorb spillage to prevent material damage.

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Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive

resistant container with a resistant inner liner.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

No OSHA defined hazard classes.

Other hazards which do not result in classification: Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. In extreme cases, tooth erosion could result. Chronic skin contact with low concentrations may cause dermatitis.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chem	nical name	Common name and synonyms	CAS number	%
Water	•	Dihydrogen oxide	7732-18-5	60 - 70
Hydrochloric Acid		Muractic Acid Hydrogen Chloride	7647-01-0	30-40

4. First-aid measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact

Take off immediately all contaminated clothing. Immediately flush skin with running water for at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed. Call a physician or poison control center immediately.

Eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get medical attention immediately.

Ingestion

If swallowed: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed

May be harmful if inhaled. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

Indication of immediate medical attention and special treatment needed

Immediate medical attention is required. Causes chemical burns. May be fatal if inhaled or swallowed. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. Use water with caution. Contact with water will generate considerable heat.

Unsuitable extinguishing media

Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

Specific hazards arising from the chemical

Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapors may evolve on burning.

Special protective equipment and precautions for firefighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

Fire fighting equipment/instructions

Fight fire with normal precautions from a reasonable distance. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control

Use standard firefighting procedures and consider the hazards of other involved materials.

Hydrogen and chlorine gas. Other irritating fumes and smoke.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift.

Small Spills: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Dilute acid with water and neutralize with Sodium Carbonate (soda ash) or lime. Use caution when neutralizing. Neutralization may release Carbon dioxide.

Large Spills: Prevent entry into waterways, sewer, basements or confined areas. If not recoverable, dilute with water or flush to holding area and neutralize. Remove with vacuum trucks or pump to storage/salvage vessels. Contact the proper local authorities.

Never return spills to original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling

Use only outdoors or in a well-ventilated area. Wear chemically resistant protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe mist. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Keep away from heat. Keep away from metals and other incompatibles. When preparing or diluting solution, always add to water, slowly and with stirring. Never add water to the product. Label containers appropriately. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS). Store in original tightly closed container. Store in corrosive resistant container with a resistant inner liner.

Suitable container and packaging materials for safe storage: Rubber lined steel. Polyvinyl chloride (PVC). Polyethylene. Polypropylene. Teflon. FRP.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type

Components	Type	Value	
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	2 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
·		5 ppm	

No biological exposure limits noted for the ingredient(s).

Material name: Aqua Guard Muriatic Acid

Biological limit values

SDS US

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles and face shield are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

Other Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and

chemical safety goggles plus a face shield.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA approved

air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Respirators

should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not breathe mist. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Colorless or slightly yellow, fuming liquid.

Physical state Liquid.

Form Fuming Liquid

Color Colorless to light yellow.

Odor Pungent.

Odor threshold 1 - 5 ppm (detectable)

pH 0.1 - 1

Melting point/freezing point -31 °F (-35 °C) Initial boiling point and boiling 143.6 °F (62 °C)

range

Flash point Not Applicable. Does not burn.

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not Applicable

(%)

Flammability limit - upper

Not Applicable

(%)

Explosive limit - lower (%) Not Applicable
Explosive limit - upper (%) Not Applicable
Vapor pressure 84 mm Hg
Vapor pressure temp. 68 °F (20 °C)

Vapor density 1.268

Vapor density temp. 68 °F (20 °C)

Relative density 1.15 -1.18 g/cm³

Solubility(ies)

Solubility (water) Soluble

Solubility (other) Very soluble in ethanol, methanol, dioxane and tetrahydrofuran. Insoluble in hydrocarbons (e.g.

n-Hexane).

Partition coefficient (n-octanol/water)

Not available.

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Material name: Aqua Guard Muriatic Acid

Auto-ignition temperature Not Applicable

Decomposition temperature Not available.

Viscosity 2 cP @68 °F (20 °C)

Particle characteristics

Not applicable

Other information

Specific gravity 1.15-1.18

10. Stability and reactivity

Reactivity Contact with most metals will generate flammable hydrogen gas. Contact with water will generate

considerable heat. May be corrosive to metals. May be corrosive to: Aluminum, stainless steel,

carbon steel, copper, bronze,

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Aldehydes and epoxides in the presence of hydrochloric acid cause violent polymerization. Alcohol and glycols in the presence of hydrochloric acid lead to

dehydration reactions.

Conditions to avoid Avoid high temperatures. Avoid contact with incompatible materials. Do not use in areas without

adequate ventilation.

Incompatible materialsMetals. Bases. Strong oxidizing agents. Strong reducing agents. Aldehydes. Epoxides. Carbides.

Picrates. Nitrates. Alcohols. Fluorine. Water, moisture. Strong acids. Acetylides. Borides.

Hazardous decomposition

products

None known.

In the event of fire the following can be released: Chlorine. Hydrogen. Hydrogen chloride gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns. Not expected to be absorbed through the skin.

Eye contact Causes serious eye damage.

Ingestion Harmful if swallowed. Causes digestive tract burns.

Most important

symptoms/effects, acute and

delayed

May be harmful if inhaled. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include

abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed.

The below product data is the calculated ATE values for this mixture. Individual ingredient

component data appears below the product mixture ATE values.

Product Species Test Results

Aqua Guard Muriatic Acid (CAS Mixture)

Acute

Inhalation

LC50 Rat 3 mg/l, 4 hours (mist)

Oral

LD50 Rat 680 mg/kg

Components Species Test Results

Hydrochloric Acid (CAS 7647-01-0)

Acute

Dermal

LD50 Rabbit > 5010 mg/kg

Inhalation

LC50 Rat 1.05 - 1.175 mg/l, 4 Hours (mist)

Material name: Aqua Guard Muriatic Acid

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Components	Species	Test Results	
Oral			
LD50	Rat	238 - 277 mg/kg	
Water (CAS 7732-18-5)			
Acute			
Dermal			
LD50	Rabbit	Not available.	
Inhalation			
LC50	Rat	Not available.	
Oral			
LD50	Rat	> 89840 mg/kg	
Skin corrosion/irritation	Hazardous by OSHA criteria. Skin corrosion/irritiation - Cate	gory 1. Causes severe skin burns.	
Carriava ava damanas/ava	Hammadaya by OCHA aritaria		

Serious eye damage/eye

Hazardous by OSHA criteria.

irritation Serious eye damage/eye irritation - Category 1. Causes serious eye damage.

Respiratory or skin sensitization

Not expected to be a respiratory sensitizer. Respiratory sensitization

Skin sensitizer Causes severe skin burns. Germ cell mutagenicity Not expected to be mutagenic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Hazardous by OSHA criteria.

Specific Target Organ Toxicity (STOT), Single Exposure, Category 3. May cause respiratory

irritation.

Specific target organ toxicity -

repeated exposure

Not classified as a specific target organ toxicity -repeated exposure.

Not expected to be an aspiration hazard. **Aspiration toxicity**

Chronic effects Chronic skin contact with low concentrations may cause dermatitis. In extreme cases, tooth

erosion could result.

12. Ecological information

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon **Ecotoxicity**

exposure to aquatic organisms and aquatic systems. However, Hydrochloric acid dissociates in water and will be neutralized by naturally occurring alkalinity. The acid will permeate soil, dissolving some soil material and will be somewhat neutralized. The ingredient ecotoxicity data

appearing below is expected to be primarily associated with pH.

Components		Species	Test Results	
Hydrochloric Acid (CAS 764	7-01-0)			
Aquatic				
Acute				
Algae	EC50	Green algae (Selenastrum capricornutum)	0.492 mg/l, 72 hours	
Crustacea	EC50	Water flea (Daphnia magna)	0.492 mg/l, 48 hours	
Fish	LC50	Carp (Cyprinus carpio communis)	4.92 mg/l, 96 hours	
Chronic				
Algae	NOEC	Green algae (Selenastrum capricornutum)	0.097 mg/l, 72 hours	
ersistence and degradability	No data is available on the degradability of this product. Biodegradation is not applicable to inorganic substances.			
oaccumulative potential	No accumulation in living organisms is expected due to high solubility and dissociation properties.			
obility in soil	High water solubility indicates a high mobility in soil.			
ther adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

> and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations. Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN1789 **UN** number

UN proper shipping name

Hydrochloric acid

Transport hazard class(es)

8 Class Subsidiary risk 8 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

US CERCLA Reportable Quantity (RQ): 5000 lbs / 2270 kg

A3, A6, B3, B15, IB2, N41, T8, TP2, TP12 Special provisions

Packaging exceptions 154 Packaging non bulk 202 242 Packaging bulk

IATA

UN1789 **UN number**

UN proper shipping name Hydrochloric acid

Transport hazard class(es)

8 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1789

UN proper shipping name Transport hazard class(es) HYDROCHLORIC ACID

Class 8 Subsidiary risk II **Packing group Environmental hazards**

> Marine pollutant No. F-A. S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

This substance/mixture is not intended to be transported in bulk.

the IBC Code



IATA; IMDG



General information

None.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Hydrochloric Acid (CAS 7647-01-0)

Listed.

SARA 304 Emergency release notification

Hydrochloric Acid (CAS 7647-01-0)

5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Corrosive to metals **Hazard categories**

Skin corrosion Eye Damage

Specific target organ

toxicity

Acute toxicity

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrochloric Acid	7647-01-0	5000	500 lbs		

Hydrochloric Acid 7647-01-0

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical n	Chemical name		% by wt.	
Hydrochlori	c Acid	7647-01-0	30-40	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydrochloric Acid (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hydrochloric Acid (CAS 7647-01-0)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Hydrochloric Acid (CAS 7647-01-0) 6545

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Hydrochloric Acid (CAS 7647-01-0) 20 %WV

DEA Exempt Chemical Mixtures Code Number

Hydrochloric Acid (CAS 7647-01-0) 6545

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Hydrochloric Acid (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act

Hydrochloric Acid (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrochloric Acid (CAS 7647-01-0)

US. Rhode Island RTK

Hydrochloric Acid (CAS 7647-01-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Inventory name

Issue date 12-19-2014

Version # 02

United States & Puerto Rico

Revision Date 02-04-2025

HMIS H= 3, F= 0, R= 1 NFPA H= 3, F= 0, R= 1

Material name: Aqua Guard Muriatic Acid

Yes

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980

CFR: Code of Federal Regulations DOT: Department of Transportation DSL: Domestic Substance List EC: European Community

EINECS: European Inventory of Existing Commercial chemical Substances

EPA: Environmental Protection Agency

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration NTP: National Toxicology Program

OECD: Organisation for Economic Cooperation and Development

OSHA: Occupational Safety and Health Administration

PPE: Personal Protective Equipment

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

Prepared by: ICC The Compliance Center Inc. 1-888-442-9628

http://www.thecompliancecenter.com

Disclaimer

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Bibliography

Disclaimer

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (International Agency for Research on Cancer Monographs Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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