Printing date 08/16/2024

Reviewed on 08/16/2024

## **1** Identification

- · Product identifier
- Trade name: <u>Magnesium Alloy Acid Etch</u>
- · Article number: SWI017
- $\cdot$  Details of the supplier of the safety data sheet

Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

- Information department: rmchardy@swictx.com Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

## 2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

*Eye Damage 1* H318 Causes serious eye damage.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



- · Signal word Danger
- · Hazard-determining components of labeling:
- Nitric Acid
- · Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

- Wear protective gloves/protective clothing/eye protection/face protection.
- 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/doctor. Specific treatment (see on this label).

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Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations	S.
· Classification system: · NFPA ratings (scale 0 - 4)	
· NFFA raungs (scale 0 - 4)	
Health = 3	
Fire = $0$	
3  0  Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
$\begin{array}{ccc} \text{HEALTH} & 3 \\ \text{FIRE} & 0 \\ \hline Fire = 0 \end{array}$	
<b>REACTIVITY O</b> $Reactivity = 0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
s composition information on information	
Chemical characterization: Mixtures	
• <b>Description:</b> Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 7697-37-2 Nitric Acid	2.976%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	97.024%

#### 4 First-aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

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<sup>·</sup> Description of first aid measures

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- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. • *Environmental precautions:* Dilute with plenty of water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. · Protective Action Criteria for Chemicals · PAC-1: CAS: 7697-37-2 Nitric Acid 0.16 ppm · PAC-2: CAS: 7697-37-2 Nitric Acid 24 ppm PAC-3: CAS: 7697-37-2 Nitric Acid 92 ppm

## 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

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	rol parameters
	ponents with limit values that require monitoring at the workplace:
	: 7697-37-2 Nitric Acid
PEL	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
REL	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm
	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm
	Long-term value: (2) ppm
	NIC-A4
Addi	tional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	d contact with the eyes.
	d contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u ratory protective device that is independent of circulating air.
	ection of hands:
	Protective gloves
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the vical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation <b>prial of gloves</b>
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality an
	s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
The e obser	exact break through time has to be found out by the manufacturer of the protective gloves and has to b much
	protection:
-ye p	
(	Tightly sealed goggles
Ċ	
Body	protection: Protective work clothing

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Information on basic physical and c	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color: Odor:	Colorless Odorless
Odor: Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	<2
Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.0119 g/cm <sup>3</sup> (8.44431 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	97.0%
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

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· Conditions to avoid No further relevant information available.

• Incompatible materials: No further relevant information available.

• Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

#### • LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate) Inhalative LC50/4h 101 mg/l

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- Additional toxicological information:

*The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive* 

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Additional ecological information:

· General notes:

Not hazardous for water.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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• *Other adverse effects No further relevant information available.* 

#### **13 Disposal considerations**

• Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extremely hazardous substances):	
CAS: 7697-37-2 Nitric Acid	
· Section 313 (Specific toxic chemical listings):	
CAS: 7697-37-2 Nitric Acid	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Nitric Acid	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
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· Proposition 65

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· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: Nitric Acid · Hazard statements Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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/doctor.* Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Date of Preparation / Last Revision:         Date of preparation / last revision         Revision 1.2, 08-16-2024: Reviewed SDS for accuracy. STN/GW         08/16/2024 / 1.1         Abbreviations and acronyms:         IMDG: International Maritime Code for Dangerous Goods         DOT: US Department of Transport Association         ELINECS: European Inventory of Existing Commercial Chemical Substances         ELINECS: European Inventory of Existing Commercial Chemical Substances         CAS: Chemical Abstracts Service (division of the American Chemical Society)         NFPA: National Fire Protection Association (USA)         HMIS: Hazardous Materials Identification System (USA)         VOC: Volatile Organic Compounds (USA, EU)         LS0: Lethal dose, 50 percent         DS0: Lethal dose, 50 percent         DS0: VPVB: very Persistent and very Bioaccumulative         NIOSH: National Institute for Occupational Safety         OSHA: Occupational Safety & Health         TLY: Threshold Limit Value         PEL: Permissible Exposure Limit         Riskin Corrosion IA: Skin corrosion/irritation – Category IA	This information is based on our present knowledge. However, this shall not constitute a guarantee for a specific product features and shall not establish a legally valid contractual relationship.
Contact: Date of Preparation / Last Revision: Date of preparation / Last Revision Revision 1.2, 08-16-2024: Reviewed SDS for accuracy. STN/GW 08/16/2024 / 1.1 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation LATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Ist of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent DS9: very Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLY: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit REL: Recommended Exposure Limit Skin Corrosion 14: Skin corrosion/irritation – Category 1A	· Department issuing SDS: Environment protection department.
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Skin Corrosion 1A: Skin corrosion/irritation – Category 1A	
	Eye Damage 1: Serious eye damage/eye irritation – Category 1 • * <b>Data compared to the previous version altered.</b>