US

Safety Data Sheet acc. to OSHA HCS

Printing date 08/16/2024

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Reviewed on 08/16/2024

Identification	
Product identifier	
Trade name: <u>Titanium Etchant</u>	
Article number: SW1016	
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	AQUA SOLUTIONS
• Information department: rmchardy@swictx.com Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
C Hazard(s) identification	
GHS06 Skull and crossbones	
Acute Toxicity - Inhalation 3 GHS08 Health hazard	H331 Toxic if inhaled.
Specific Target Organ Toxicity - Repeated Exposition	ture 2 H373 May cause damage to organs through prolonged or repeated exposure.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
Hazard pictograms	d labeled according to the Globally Harmonized System (GHS).
GHS05 GHS06 GHS08 • <i>Signal word Danger</i>	
Hazard-determining components of labeling:	
Nitric Acid Hydrochloric Acid	

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

	(Contd. of page
Hazard statements	
Toxic if inhaled.	
Causes severe skin burns and eye damage.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area. 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 y	water/shower
IF ON SAM (OF Hair). Take off immediately an comaminated cooling. Kinse skin with IF INHALED: Remove person to fresh air and keep comfortable for breathing.	water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	es if present and easy to d
Continue rinsing.	es, if present and easy to a
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Wash contaminated clothing before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internation	nal regulations
Classification system:	
NFPA ratings (scale 0 - 4)	
Fire = 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH *3 $Health = *3$	
FIRE 0 $Fire = 0$	
REACTIVITY Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
vPvB: Not applicable.	
vPvB: Not applicable. Composition/information on ingredients	
vPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures	
wPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions.	
vPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components:	44 5269
wPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: CAS: 7697-37-2 Nitric Acid	
vPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: CAS: 7697-37-2 Nitric Acid CAS: 7647-01-0 Hydrochloric Acid	44.526% 2.996%
wPvB: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions. Dangerous components: CAS: 7697-37-2 Nitric Acid	

(Contd. on page 3)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

(Contd. of page 2)

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

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.

<u>5 Fire-fighting measures</u>

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

6 Accidental release measures

· Personal precautions, protective equipment and eme	gency procedures
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons	away.
· Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water	
· Methods and material for containment and cleaning	ıp:
Absorb with liquid-binding material (sand, diatomite,	ucid binders, universal binders, sawdust).
Use neutralizing agent.	
Dispose contaminated material as waste according to	vection 13.
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection e	juipment.
See Section 13 for disposal information.	
• Protective Action Criteria for Chemicals	
• PAC-1:	
CAS: 7697-37-2 Nitric Acid	0.16 ppm
CAS: 7647-01-0 Hydrochloric Acid	1.8 ppm
·	(Contd. on page 4)

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

	(Contd. of page 3)
· PAC-2:	
CAS: 7697-37-2 Nitric Acid	24 ppm
CAS: 7647-01-0 Hydrochloric Acid	22 ppm
• PAC-3:	
CAS: 7697-37-2 Nitric Acid	92 ppm
CAS: 7647-01-0 Hydrochloric Acid	100 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

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.

· Control parameters

CAS: 7697-37-2 Nitric Acid	require monitoring at the workplace:
PEL	Long-term value: 5 mg/m ³ , 2 ppm
REL	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4
CAS: 7647-01-0 Hydrochloric Acid	
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m ³
PEL	Ceiling limit value: 7 mg/m³, 5 ppm
REL	Ceiling limit value: 7 mg/m³, 5 ppm
TLV	Ceiling limit value: 2 ppm A4

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

(Contd. on page 5)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

Wash hands before breaks and at the Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low polla respiratory protective device that is in Protection of hands:	ution use respiratory filter device. In case of intensive or longer exposure use
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on con Material of gloves The selection of the suitable gloves d varies from manufacturer to manufact the glove material can not be calcula Penetration time of glove material	eable and resistant to the product/ the substance/ the preparation. ation to the glove material can be given for the product/ the preparation/ the nsideration of the penetration times, rates of diffusion and the degradation loes not only depend on the material, but also on further marks of quality and cturer. As the product is a preparation of several substances, the resistance of ted in advance and has therefore to be checked prior to the application. To be found out by the manufacturer of the protective gloves and has to be
9 Physical and chemical proper	<i>tie</i> s
) i nysicai ana chemicai properi	
 Information on basic physical and c General Information 	chemical properties
Appearance:	
Form:	Liquid
Color: Clear	
· Odor:	Odorless
· Odor threshold:	Not determined.
• pH-value at 20 °C (68 °F):	<1
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	83 °C (181.4 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
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(Contd. on page 6) US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

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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):	1.1835 g/cm³ (9.87631 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	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	52.5 %	
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.
- · 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 6.74 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.

(Contd. on page 7)

[—] US

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

· Additional toxicological information:

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

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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 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.

· 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.

(Contd. on page 8)

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

(Contd. of page 7)

US

UN-Number DOT, IMDG, IATA	UN3264
	0115204
UN proper shipping name	Company liquid acidia incurania n a a (Nituia Aci
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Aci Hydrochloric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nith
	Acid, Hydrochloric Acid)
Transport hazard class(es)	
DOT	
CORROSIVE	
V	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
8	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B
Segregation groups Stowage Category	(SGG1a) Strong acids
Stowage Calegory Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
~	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	IL
Excepted quantities $(\tilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

(Contd. of page 8)

· UN "Model Regulation":

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROCHLORIC ACID), 8, II

15 Regulatory information

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

· Sara

Nitric Acid A Hydrochloric Acid A • Hazardous Air Pollutants CAS: 7647-01-0 CAS: 7647-01-0 Hydrochloric Acid • Proposition 65 • • 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 reproductive toxicity for males: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings): CAS: 7697-37-2 Nitric Acid Water Water Nitric Acid Hydrochloric Acid Hydrochloric Acid • Hazardous Air Pollutants CAS: 7647-01-0 Hydrochloric Acid • Proposition 65 • 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. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
CAS: 7697-37-2 Nitric Acid • TSCA (Toxic Substances Control Act): A Water A Nitric Acid A Hydrochloric Acid A • Hazardous Air Pollutants A CAS: 7647-01-0 Hydrochloric Acid • Proposition 65 • • 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 reproductive toxicity for males: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
• TSCA (Toxic Substances Control Act): Water A Nitric Acid A Hydrochloric Acid A • Hazardous Air Pollutants A CAS: 7647-01-0 Hydrochloric Acid • Proposition 65 • • 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 reproductive toxicity for males: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
Water A Nitric Acid A Hydrochloric Acid A • Hazardous Air Pollutants A CAS: 7647-01-0 Hydrochloric Acid • Proposition 65 • • 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 reproductive toxicity for males: • None of the ingredients is listed. • • Chemicals known to cause developmental toxicity: • None of the ingredients is listed. • • Chemicals known to cause developmental toxicity: • None of the ingredients is listed. • • Carcinogenic categories •	
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None of the ingredients is listed. • Carcinogenic categories	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	

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• *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

(Contd. on page 10)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Titanium Etchant

(Contd. of page 9)
Hazard-determining components of labeling:
Nitric Acid
Hydrochloric Acid
Hazard statements
Toxic if inhaled.
Causes severe skin burns and eye damage.
May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
Do not breathe dusts or mists.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
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.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · 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 / -· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List 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 dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

(Contd. on page 11)

⁻ US

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Trade name: Titanium Etchant

Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 • * Data compared to the previous version altered.

(Contd. of page 10)

US