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Identification	
Product identifier	
Trade name: <u>Acid Wash Color Std.</u>	
<u>Stock Solution 'B'</u> Article number: EQS321	
Details of the supplier of the safety data sheet	
· Manufacturer/Supplier:	AQUA
Aqua Solutions, Inc. 6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 800-256-2586	
Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolutions.org	
• Emergency telephone number:	
Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Classification of the substance or mixture GHS08 Health hazard	
GHS08 Health hazard Specific Target Organ Toxicity - Repeated Exposur GHS05 Corrosion Eye Damage 1	re 2 H373 May cause damage to organs through prolonged repeated exposure. H318 Causes serious eye damage.
GHS08 Health hazard Specific Target Organ Toxicity - Repeated Exposur	repeated exposure.
$ \begin{array}{c} \hline \\ \hline $	repeated exposure. H318 Causes serious eye damage.
GHS08 Health hazard $Specific Target Organ Toxicity - Repeated Exposure $ $GHS05 Corrosion$ $Eye Damage 1$ $Output Output Out$	repeated exposure. H318 Causes serious eye damage. H315 Causes skin irritation.

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· Hazard statements (Contd. of pa	age 1)
Causes skin irritation.	
Causes skin in Hallon. Causes serious eye damage.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Wear protective gloves / eye protection / face protection.	
If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	o do.
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system: · NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3 0 Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 0 $Fire = 0$	
REACTIVITY 0 Reactivity = 0	
REACTIVITY 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <i>PBT</i> : Not applicable.	
· vPvB: Not applicable.	
3 Composition/information on ingredients	
5 composition information on ingreatents	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 10025-77-1 Ferric Chloride Hexahydrate 4.44	47%
CAS: 7647-01-0 Hydrochloric Acid 2.60	8%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water 92.87	74%

4 First-aid measures

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• Description of first aid measures • General information:

Immediately remove any clothing soiled by the product.

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

• 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: If symptoms persist consult 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.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

	ons, protective equipment and emergency procedures	
Mount respiratory		
	quipment. Keep unprotected persons away.	
• Environmental pr		
	luct to reach sewage system or any water course.	
	authorities in case of seepage into water course or sewage system.	
Dilute with plenty		
	nter sewers/ surface or ground water.	
	erial for containment and cleaning up:	
	l-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing a		
Dispose contamine	ated material as waste according to section 13.	
Ensure adequate v		
· Reference to othe	r sections	
See Section 7 for i	nformation on safe handling.	
See Section 8 for i	nformation on personal protection equipment.	
See Section 13 for	disposal information.	
· Protective Action	Criteria for Chemicals	
· PAC-1:		
CAS: 10025-77-1	Ferric Chloride Hexahydrate	15 mg/m ³
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
· PAC-2:		
CAS: 10025-77-1	Ferric Chloride Hexahydrate	39 mg/m ³
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
· PAC-3:		· ·
CAS: 10025-77-1	Ferric Chloride Hexahydrate	240 mg/m ³
		(Contd. on page 4

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CAS: 7647-01-0 Hydrochloric Acid

(Contd. of page 3) 100 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.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

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	
	<i>A4</i>	

• 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.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c General Information	hemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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)	

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		(Contd. of page
Density at 20 °C (68 °F):	1.0241 g/cm ³ (8.54611 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/	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	92.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	4.4 %	
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)

Oral LD50 20,239 mg/kg (rat)

- · Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- \cdot on the eye: 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· 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.

- · 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.

UN-Number		
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name		
DOT, ÂDN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not regulated	
Packing group		
DOT, ĬMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	No	

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	(Contd. of page
Special precautions for user	Not applicable.
Hazard identification number (Kemler code)	
Segregation groups	(SGG1) Acids
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: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\tilde{E}Q)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	Not regulated

15 Regulatory information

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

· Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
• TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Hydrochloric Acid	ACTIVE
· 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.	
· Carcinogenic categories	
· FDA (Environmental Protection Aganew)	

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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TLV (Threshold Limit	Value)
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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: Ferric Chloride Hexahydrate Hydrochloric Acid

• Hazard statements Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

• Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

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.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

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, 08-19-2024: Reviewed SDS for accuracy. STN/GW Revision 0.1, 08-05-2020: Reviewed SDS. STN 08/19/2024 / 1.1 • Abbreviations and acronyms:

ADDREVIATIONS 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

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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	(Contd. of page 9)
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	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
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	
* <i>Data compared to the previous version altered.</i>	
	US