Printing date 08/19/2024

Reviewed on 08/19/2024

### **1** Identification

- · Product identifier
- Trade name: Acid Wash Color Std. Stock Solution 'D'
- Article number: EQS323
- 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: Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

### 2 Hazard(s) identification





GHS08 Health hazard

Sensitization - Respiratory 1

breathing difficulties if inhaled. H350 May cause cancer. Carcinogenicity 1B Toxic to Reproduction 1B H360 May damage fertility or the unborn child. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or

Eye Damage 1 · Label elements

Skin Corrosion 1A

• 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: Hydrochloric Acid Cobalt Chloride Hexahydrate *Ferric Chloride Hexahydrate* 

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### Trade name: Acid Wash Color Std. Stock Solution 'D'

Hazard statements	(Contd. of pag
Causes severe skin burns and eye damage.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause cancer.	
May damage fertility or the unborn child.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate	r/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, i	f present and easy to
Continue rinsing.	
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international r	egulations.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
$\frac{1}{Fire} = 0$	
$\frac{2}{Reactivity} = 0$	
Keacuvity – 0	
HMIS-ratings (scale 0 - 4)	
<b>HEALTH 2</b> $Health = 2$	
FIRE 0 $Fire = 0$	
<b>REACTIVITY</b> Reactivity = $0$	
Reactivity 0	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
Composition/injormation on ingreatents	
Chemical characterization: Mixtures	
<b>Description:</b> Mixture of the substances listed below with nonhazardous additions.	

· Dangerous comp	onents:	
CAS: 7647-01-0	Hydrochloric Acid	4.269%
CAS: 10025-77-1	Ferric Chloride Hexahydrate	3.907%
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	0.494%
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• Table of Nonhazardous Ingredients

91.329%

4 First-aid measures

CAS: 7732-18-5 Water

• 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.

- 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.
- · 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:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground 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.	
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· Protective Action Criteria for Chemicals	(Contd. of page 3
· PAC-1:	
CAS: 7647-01-0 Hydrochloric Acid	1.8 ppm
CAS: 10025-77-1 Ferric Chloride Hexahydrate	15 mg/m <sup>3</sup>
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	0.24 mg/m <sup>3</sup>
<i>PAC-2:</i>	<u>·</u>
CAS: 7647-01-0 Hydrochloric Acid	22 ppm
CAS: 10025-77-1 Ferric Chloride Hexahydrate	39 mg/m <sup>3</sup>
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	25 mg/m <sup>3</sup>
PAC-3:	
CAS: 7647-01-0 Hydrochloric Acid	100 ppm
CAS: 10025-77-1 Ferric Chloride Hexahydrate	240 mg/m <sup>3</sup>
CAS: 7791-13-1 Cobalt Chloride Hexahydrate	150 mg/m <sup>3</sup>

# 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

• 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 other constituents have no known exposure limits.

CAS: 7647-01-0 Hydrochloric Acid	
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m <sup>3</sup>
	Ceiling limit value: 7 mg/m <sup>3</sup> , 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.

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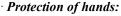
Trade name: Acid Wash Color Std. Stock Solution 'D'

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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 eyes. 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.





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 General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow-orange	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	

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### Trade name: Acid Wash Color Std. Stock Solution 'D'

	(Contd. of page 3
· 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):	1.05217 g/cm <sup>3</sup> (8.78036 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:	91.3 %
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.

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## Trade name: Acid Wash Color Std.

## Stock Solution 'D'

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Informatio	on on toxicological effects
Acute toxi	
LD/LC50	values that are relevant for classification:
ATE (Acu	te Toxicity Estimate)
Oral LD5	0 23,034 mg/kg (rat)
Primary ir	ritant effect:
	: Strong caustic effect on skin and mucous membranes.
on the eye.	
Strong cau	
	tant with the danger of severe eye injury.
	on: Sensitization possible through inhalation.
	toxicological information:
1	ct shows the following dangers according to internally approved calculation methods for preparation
Harmful	
Corrosive	
Irritant	
	g will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophag
and stoma	ch.
Carcinoge	nic categories
IARC (Inte	ernational Agency for Research on Cancer)
CAS: 7791	-13-1 Cobalt Chloride Hexahydrate 2
NTP (Nati	onal Toxicology Program)
None of the	e ingredients is listed.
OSHA-Ca	(Occupational Safety & Health Administration)
17 01	e 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.

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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.

UN-Number	Not worklated	
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not regulated	
Packing group		
DOT, IMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Not regulated	

# **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

CAS: 7791-13-1 Cobalt Chloride Hexahydrate

• TSCA (Toxic Substances Control Act):

Water

Hydrochloric Acid

· Hazardous Air Pollutants

CAS: 7647-01-0 Hydrochloric Acid

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## Safety Data Sheet acc. to OSHA HCS

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· Proposition 65

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#### Trade name: Acid Wash Color Std. Stock Solution 'D'

• Chemicals known to cause cancer:

CAS: 7791-13-1 Cobalt Chloride Hexahydrate

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 GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Hvdrochloric Acid Cobalt Chloride Hexahydrate *Ferric Chloride Hexahydrate* · Hazard statements Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory 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.

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#### Trade name: Acid Wash Color Std. Stock Solution 'D'

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Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. *Exceptions can be made by the authorities in certain cases.* 

· 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 08/19/2024 / 1.1 • 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 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eve Damage 1: Serious eve damage/eve irritation – Category 1 Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Carcinogenicity 1B: Carcinogenicity – Category 1B Toxic to Reproduction 1B: Reproductive toxicity - Category 1B Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 • \* Data compared to the previous version altered.

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