US

Safety Data Sheet acc. to OSHA HCS

Printing date 04/04/2023

Reviewed on 04/04/2023

Product identifier		
Trade name: <u>Acid Wash C</u> Stock Solutio		
Article number: EQS322		
Details of the supplier of the Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	he safety data sheet	AQUA
Information department: Technical Coordinator Sherman Nelson shermann Emergency telephone num Chemtrec: 800-424-9300 Canutec: 613-996-6666		
Hazard(s) identificatio	174	
	nt	
Classification of the substa	ince or mixture	
GHS08 Health h		
Sensitization - Respiratory	1 H334 May cause allergy or asthma s	symptoms or breathing difficulties if inhale
Sensitization - Respiratory Carcinogenicity 1B	1 H334 May cause allergy or asthma s H350 May cause cancer.	
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Sensitization - Respiratory Carcinogenicity 1B Toxic to Reproduction 1B	1 H334 May cause allergy or asthma H350 May cause cancer. H360 May damage fertility or the un	
Sensitization - Respiratory Carcinogenicity 1B Toxic to Reproduction 1B GHS07 Eye Irritation 2A	1 H334 May cause allergy or asthma H350 May cause cancer. H360 May damage fertility or the un	
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· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
If inhaled: If breathing is difficult, 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 Continue rinsing.	and easy to do.
IF exposed or concerned: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ıs.
· Classification system:	
·NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \textbf{Health} = 2\\ Fire = 0\\ Reactivity = 0 \end{array}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH2Health = 2FIRE0 $Fire = 0$ REACTIVITY0 $Reactivity = 0$	
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous comp	ponents:	
CAS: 10025-77-1	Ferric Chloride Hexahydrate	1.648%
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	0.207%
v	ardous Ingredients	
CAS: 7732-18-5	Water	98.046%
CAS: 7647-01-0	Hydrochloric Acid	0.1%

4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- 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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions: Dilute with plenty of water.
- \cdot Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 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: 10025-77-1	Ferric Chloride Hexahydrate	15 mg/m ³
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	0.24 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: 7791-13-1	Cobalt Chloride Hexahydrate	25 mg/m ³
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
· PAC-3:		
CAS: 10025-77-1	Ferric Chloride Hexahydrate	240 mg/m ³
CAS: 7791-13-1	Cobalt Chloride Hexahydrate	150 mg/m ³
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.

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• 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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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 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.

• 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

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· Body protection: Protective work clothing

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Information on basic physical and c	hemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Yellow-orange	
Odor: Odor threshold:	Odorless Not determined.	
	Not determined.	
pH-value:	Noi delerminea.	
Change in condition		
Melting point/Melting range:	$0 \circ C (32 \circ F)$	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	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):	1.00862 g/cm³ (8.41693 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:	98.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	1.9 %	
Other information	No further relevant information available.	

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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 54,612 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through inhalation.
- · Additional toxicological information:

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

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7791-13-1 Cobalt Chloride Hexahydrate

· 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.
- · 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.

Transport information		
UN-Number 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 MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot 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: 7791-13-1 Cobalt Chloride Hexahydrate

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CAS: 7647-01-0 Hydrochloric Acid

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· 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

· 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: *Cobalt Chloride Hexahvdrate* · Hazard statements Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, 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. IF exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. *If experiencing respiratory symptoms: Call a poison center/doctor.* Store locked up. (Contd. on page 9)

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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 Revision 1.0 03/31/2023 Reviewed SDS for accuracy. STN

Revision 0.1, 08-05-2020: Reviewed SDS. STN 04/04/2023

· 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 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Respiratory 1: Respiratory sensitisation - Category 1 Carcinogenicity 1B: Carcinogenicity – Category 1B Toxic to Reproduction 1B: Reproductive toxicity – Category 1B \cdot * Data compared to the previous version altered.

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