Printing date 06/04/2024

Reviewed on 06/04/2024

## **1** Identification · Product identifier • Trade name: Valero Maintenance **Reliability Solution** • Article number: VAL029 · 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 · Classification of the substance or mixture GHS05 Corrosion 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 GHS05 · Signal word Danger · Hazard-determining components of labeling: Cupric Sulfate Pentahydrate · Hazard statements Causes serious eye damage. · Precautionary statements Wear eye protection / face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Store in a closed container. Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. on page 2) US

Printing date 06/04/2024

Reviewed on 06/04/2024

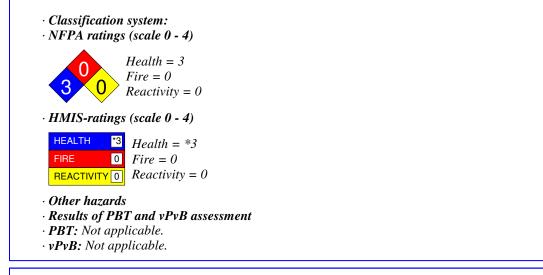
Trade name: Valero Maintenance Reliability Solution

(Contd. of page 1)

8.529%

91.38%

0.091%



### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 7758-99-8 Cupric Sulfate Pentahydrate

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

## 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- 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 No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

(Contd. on page 3)

Printing date 06/04/2024

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Trade name: Valero Maintenance Reliability Solution Reviewed on 06/04/2024

(Contd. of page 2)

Personal precau	tions, protective equipment and emergency procedures	
•	equipment. Keep unprotected persons away.	
Environmental p		
	educt to reach sewage system or any water course.	
Inform respective	e authorities in case of seepage into water course or sewage system.	
Dilute with plent	y of water.	
Do not allow to e	enter sewers/ surface or ground water.	
	tterial for containment and cleaning up:	
	id-binding material (sand, diatomite, acid binders, universal binders,	, sawdust).
Use neutralizing		
	nated material as waste according to section 13.	
Reference to oth		
Can Castion 7 from		
•	information on safe handling.	
See Section 8 for	information on personal protection equipment.	
See Section 8 for See Section 13 fo	r information on personal protection equipment. For disposal information.	
See Section 8 for See Section 13 for <b>Protective Action</b>	information on personal protection equipment.	
See Section 8 for See Section 13 fo	r information on personal protection equipment. For disposal information.	
See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b>	r information on personal protection equipment. For disposal information.	12 mg/m <sup>3</sup>
See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8	information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b>	12 mg/m <sup>3</sup> 0.20 mg/m
See Section 8 for See Section 13 fc <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8 CAS: 7664-93-9	r information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b> Cupric Sulfate Pentahydrate	ů
See Section 8 for See Section 13 fo <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8 CAS: 7664-93-9 <b>PAC-2:</b>	r information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b> Cupric Sulfate Pentahydrate	0.20 mg/m
See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8 CAS: 7664-93-9 <b>PAC-2:</b> CAS: 7758-99-8	information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b> <i>Cupric Sulfate Pentahydrate</i> <i>Sulfuric Acid 96 - 98%</i>	0.20 mg/m 32 mg/m
See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8 CAS: 7664-93-9 <b>PAC-2:</b> CAS: 7758-99-8 CAS: 7664-93-9	information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b> Cupric Sulfate Pentahydrate Sulfuric Acid 96 - 98% Cupric Sulfate Pentahydrate	0.20 mg/m 32 mg/m
See Section 8 for See Section 13 for <b>Protective Action</b> <b>PAC-1:</b> CAS: 7758-99-8 CAS: 7664-93-9 <b>PAC-2:</b> CAS: 7758-99-8 CAS: 7664-93-9 <b>PAC-3:</b>	information on personal protection equipment. or disposal information. <b>n Criteria for Chemicals</b> Cupric Sulfate Pentahydrate Sulfuric Acid 96 - 98% Cupric Sulfate Pentahydrate	Ű

#### 7 Handling and storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

US

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

Printing date 06/04/2024

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Reviewed on 06/04/2024

(Contd. of page 3)

Trade name: Valero Maintenance Reliability Solution

General protective and kygienic 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.         Avoid contact with the eyes.         Protection of hands:         Image: the eyes.         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 gloves 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. As the product is a preparation of several substances, the resistance of the glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         Penetetion:         Protection:         Protection:         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         Steperotection:         Protection	· Exposure controls	
Keep away, from foodstuffs, beverages and fed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment: Not required.         Protection of hands:         Image: the end of work is the end of work.         Protection of hands:         Image: the end of work is the end of work.         Protection of hands:         Image: the end of work is the end of work.         Protection of hands:         Image: the end of work is the end of work.         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 of the chemical mixture.         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 an able calculated in advance and has therefore to be checked prior to the application.         Penetration time of glove material       madvance and has therefore to be checked prior to the application.         Penetration time of glove material       madvance and has therefore to be checked prior to the application.         Pre	· Personal protective equipment:	
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Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: Not required. Protection of hands:		8
Avoid contact with the eyes and skin. Breathing equipment: Not required. Frotection of hands:		e ena oj work.
Breathing equipment: Not required.         Protection of hands:         Protection of hands:         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:         Fightly sealed goggles         Body protection: Protective work clothing         Physical and chemical properties         General Information on basic physical and chemical properties         General Information         Appearance:         Form:       Liquid         Color:       Blue         Odor threshold:       Not determined.		
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Information on basic physical and chemical properties         General Information         Appearance:         Form:       Liquid         Color:       Blue         Odor:       Odorless         Odor threshold:       Not determined.         • pH-value:       Not determined.         • Change in condition       Undetermined.         Melting point/Melting range:       100 °C (212 °F)		
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Melting point/Melting range:Undetermined.Boiling point/Boiling range:100 °C (212 °F)	<ul> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor threshold:</li> </ul>	Blue Odorless Not determined.
Boiling point/Boiling range: 100 °C (212 °F)	<ul> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor threshold:</li> <li>pH-value:</li> </ul>	Blue Odorless Not determined.
	<ul> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor threshold:</li> <li>pH-value:</li> <li>Change in condition</li> </ul>	Blue Odorless Not determined. Not determined.
	<ul> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor threshold:</li> <li>pH-value:</li> <li>Change in condition Melting point/Melting range:</li> </ul>	Blue Odorless Not determined. Not determined. Undetermined.

(Contd. on page 5)

US

Printing date 06/04/2024

Reviewed on 06/04/2024

Trade name:	Valero Maintenance
	<b>Reliability Solution</b>

	(Contd. of page 4
· 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):	1.11027 g/cm³ (9.2652 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:	91.4 %
VOC content:	0.00~%
	0.0 g/l / 0.00 lb/gal
Solids content:	8.5 %
• 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:
- Primary irritant effect:
- on the skin: No irritant effect.
- $\cdot$  on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.

(Contd. on page 6)

US

Printing date 06/04/2024

Reviewed on 06/04/2024

## Trade name: Valero Maintenance

**Reliability Solution** 

(Contd. of page 5)

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#### · 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)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· NTP (National Toxicology Program)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

#### · 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · 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.

## **14 Transport information**

· UN-Number · DOT, IMDG, IATA

UN3082

(Contd. on page 7)

US

Printing date 06/04/2024

Reviewed on 06/04/2024

	(Contd. of page
UN proper shipping name	(
DOT	Environmentally hazardous substance, liquid, n.o.s. (Cupr
-	Sulfate Pentahydrate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIN
	N.O.S. (Cupric Sulfate Pentahydrate), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (Cupric Sulfate Pentahydrate)
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, IMDG, IATA	111
Environmental hazards:	Product contains environmentally hazardous substances: Cupr
	Sulfate Pentahydrate
Marine pollutant:	Yes (DOT)
Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code):	Warning: Miscellaneous dangerous substances and articles
EMS Number:	50 F-A,S-F
Stowage Category	A
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: 450 L
	On cargo aircraft only: 450 L
Remarks:	Special marking with the symbol (fish and tree).
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (CUPRIC SULFATE PENTAHYDRATE), 9, III

# 15 Regulatory information

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

(Contd. on page 8)

— US

Printing date 06/04/2024

Reviewed on 06/04/2024

#### Trade name: Valero Maintenance Reliability Solution

Sara	
Section 355 (extremely hazardous substances):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
Section 313 (Specific toxic chemical listings):	
CAS: 7758-99-8 Cupric Sulfate Pentahydrate	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
TSCA (Toxic Substances Control Act):	
Water	ACTIV
Sulfuric Acid 96 - 98%	ACTIV
Hazardous Air Pollutants	
None of the ingredients is listed.	
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)	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	Α
NIOSH-Ca (National Institute for Occupational Safety and Health)	· · · · ·
None of the ingredients is listed.	



· Signal word Danger

• *Hazard-determining components of labeling: Cupric Sulfate Pentahydrate* 

• Hazard statements Causes serious eye damage.

• **Precautionary statements** Wear eye protection / face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water.

(Contd. on page 9)

US

Printing date 06/04/2024

Reviewed on 06/04/2024

#### Trade name: Valero Maintenance Reliability Solution

(Contd. of page 8)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store in a closed container.

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, 06/04/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/04/2024 • 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) 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 Damage 1: Serious eye damage/eye irritation - Category 1  $\cdot$  \* Data compared to the previous version altered.