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### **1** Identification

- · Product identifier
- Trade name: <u>Mixed Anion Standard</u> <u>1.0% w/v each Component</u>
- · Article number: VEN025
- 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



- Acute Toxicity Inhalation 4 H332 Harmful if inhaled.
- · Label elements
- *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



- · Signal word Warning
- *Hazard-determining components of labeling:* Sodium Thiocyanate sodium formate
- *Hazard statements Harmful if inhaled.*
- · Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
- · Classification system:
- · NFPA ratings (scale 0 4)



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· HMIS-ratings (scale 0 - 4)

HEALTH
$$\bigcirc$$
 $Health = 0$ FIRE $\bigcirc$  $Fire = 0$ REACTIVITY $\bigcirc$  $Reactivity = 0$ 

· 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: 62-76-0	Sodium Oxalate	1.459%
CAS: 141-53-7	sodium formate	1.447%
CAS: 7757-82-6	Sodium Sulfate Anhydrous	1.417%
CAS: 540-72-7	Sodium Thiocyanate	1.338%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	88.058%
CAS: 10102-17-2	7 Sodium Thiosulfate Pentahydrate, Reagent ACS	2.12%
CAS: 7647-14-5	Sodium Chloride	1.579%
CAS: 127-09-3	Sodium Acetate Anhydrous	1.331%
CAS: 2836-32-0	Sodium Glycolate	1.252%

#### **4** First-aid measures

#### · Description of first aid measures

• General information:

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

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- 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.

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- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: 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: 10102-17-7	Sodium Thiosulfate Pentahydrate, Reagent ACS	50 mg/m <sup>3</sup>
CAS: 62-76-0	Sodium Oxalate	11 mg/m <sup>3</sup>
CAS: 141-53-7	sodium formate	$0.45 \ mg/m^3$
CAS: 7757-82-6	Sodium Sulfate Anhydrous	9.8 mg/m <sup>3</sup>
CAS: 540-72-7	Sodium Thiocyanate	$0.7 \ mg/m^3$
CAS: 127-09-3	Sodium Acetate Anhydrous	11 mg/m <sup>3</sup>
CAS: 2836-32-0	Sodium Glycolate	5.1 ppm
· PAC-2:		
CAS: 10102-17-7	Sodium Thiosulfate Pentahydrate, Reagent ACS	54 ppm
CAS: 62-76-0	Sodium Oxalate	68 ppm
CAS: 141-53-7	sodium formate	25 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	110 mg/m <sup>3</sup>
CAS: 540-72-7	Sodium Thiocyanate	$7.7 mg/m^3$
CAS: 127-09-3	Sodium Acetate Anhydrous	120 mg/m <sup>3</sup>
CAS: 2836-32-0	Sodium Glycolate	230 mg/m3
· PAC-3:		
CAS: 10102-17-7	Sodium Thiosulfate Pentahydrate, Reagent ACS	320 ppm
CAS: 62-76-0	Sodium Oxalate	400 ppm
CAS: 141-53-7	sodium formate	250 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	650 mg/m <sup>3</sup>
CAS: 540-72-7	Sodium Thiocyanate	46 mg/m <sup>3</sup>
CAS: 127-09-3	Sodium Acetate Anhydrous	700 mg/m <sup>3</sup>
CAS: 2836-32-0	Sodium Glycolate	1400 mg/m3

### 7 Handling and storage

· Handling:

· Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: No special measures required.

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- · 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: 7757-82-6 Sodium Sulfate Anhydrous

TLV Short-term value: NIC-0.2 mg/m<sup>3</sup>

thoracic fraction of aerosol

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

#### · Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- 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:

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: Not required.

· Body protection: Protective work clothing

### 9 Physical and chemical properties

• Information on basic physica	and chemical properties
· General Information	
· Appearance:	

Form:	Liquid
Color:	Clear
· Odor:	Odorless

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Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability:	Not determined.	
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 $^{\circ}C$ (68 $^{\circ}F$ ):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not applicable.	
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:	88.1 %	
VOC content:	0.00 %	
Solids content:	11.9 %	
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.
- $\cdot$  Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: No further relevant information available.}$
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicolo · Informatio · Acute toxic	on on toxi	formation cological effects
	•	t are relevant for classification:
ATE (Acu		
Oral	LD50	21,423 mg/kg
Dermal		39,341 mg/kg
		79.8-112 mg/l
	on: No ser toxicolog	nsitizing effects known. ical information: Harmful
· IARC (Inte	ernationa	Agency for Research on Cancer)
None of th	e ingredie	nts is listed.
· NTP (Nati	onal Toxi	cology Program)
,		nts is listed.
	· •	ional Safety & Health Administration) nts 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.
- $\cdot$  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.

- · 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.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, IMDG, IATA	Not regulated
· UN proper shipping name · DOT, IMDG, IATA	Not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not regulated
· Packing group · DOT, IMDG, IATA	Not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex 1 MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
· UN ''Model Regulation'':	Not regulated

# **15 Regulatory information**

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

· Sara

None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Sodium Chloride	ACTIVI
Sodium Oxalate	ACTIVI
sodium formate	ACTIVI
Sodium Sulfate Anhydrous	ACTIVI
Sodium Thiocyanate	ACTIVI
Sodium Acetate Anhydrous	ACTIVI
Sodium Glycolate	ACTIVI
· Hazardous Air Pollutants	
None of the ingredients is listed.	

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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.

 $\cdot$  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 Warning

Hazard-determining components of labeling: Sodium Thiocyanate sodium formate
Hazard statements Harmful if inhaled.
Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

· 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 0.0, 09-23-2024: Creation date for SDS. CMC/STN 09/23/2024 / -

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(Contd. of page 8) • 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 4: Acute toxicity - Category 4