Printing date 08/16/2024

Reviewed on 08/16/2024

1 Identification

- · Product identifier
- Trade name: <u>Sulfide Standard</u> 10.0 ppm w/w
- Article number: MAR016
- 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



Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

• Precautionary statements

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water. Specific treatment (see on this label).

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

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

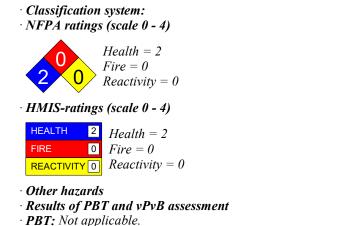
(Contd. on page 2)

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

(Contd. of page 1)



· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
CAS: 1310-73-2	Sodium Hydroxide	0.504%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	99.489%
CAS: 1313-84-4	Sodium Sulfide Nonahydrate	0.008%

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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. If symptoms persist, 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.

(Contd. on page 3)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

• 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 section 13.

· 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:**

· PAC-1:			
CAS: 1310-73-2	Sodium Hydroxide	$0.5 \ mg/m^3$	
CAS: 1313-84-4	Sodium Sulfide Nonahydrate	0.17 mg/m^3	
· PAC-2:			
	Sodium Hydroxide	$5 mg/m^3$	
CAS: 1313-84-4	Sodium Sulfide Nonahydrate	1.9 mg/m ³	
· PAC-3:			
	Sodium Hydroxide	50 mg/m^3	
CAS: 1313-84-4	Sodium Sulfide Nonahydrate	11 mg/m ³	

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:

CAS: 1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m³

REL Ceiling limit value: 2 mg/m³

(Contd. on page 4)

(Contd. of page 2)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

TI	LV Ceiling limit value: 2 mg/m ³ (Contd. of page 3
	dditional information: The lists that were valid during the creation were used as basis.
	xposure controls ersonal protective equipment:
	eneral protective equipment. eneral protective and hygienic measures:
	eep away from foodstuffs, beverages and feed.
	imediately remove all soiled and contaminated clothing.
	ash hands before breaks and at the end of work.
	void contact with the eyes and skin.
	reathing equipment: Not required.
	rotection of hands:
	Protective gloves
	1 Tolective gloves
TΪ	he glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	ue to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	nemical mixture.
	election of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	laterial of gloves
	he selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
	uries from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance o e glove material can not be calculated in advance and has therefore to be checked prior to the application.
	e giove material can not be calculated in davance and has increjore to be checked prior to the application. enetration time of glove material
	he exact break through time has to be found out by the manufacturer of the protective gloves and has to be
	bserved.
E	ve protection:
	Tighthy appled approach
	Tightly sealed goggles
Be	ody protection: Protective work clothing
_	
P	hysical and chemical properties

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Sulfur odor	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

	(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):	1.0027 g/cm ³ (8.36753 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:	99.5 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.5 %
• 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: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

(Contd. on page 6)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard

10.0 ppm w/w

(Contd. of page 5)

• 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.

· 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.
- 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, 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	
	C C	(Contd. on page '

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

		(Contd. of page 6)
· 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	I of 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

· 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

Sodium Hydroxide

· 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)

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). (Contd. on page 8)

ACTIVE

ACTIVE

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: Sulfide Standard 10.0 ppm w/w

(Contd. of page 7) · Hazard pictograms GHS07 · Signal word Warning · Hazard statements Causes skin irritation. Causes serious eye irritation. **Precautionary statements** Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: 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, 08-16-2024: Reviewed SDS for Creation date for SDS 07-27-2018 STN
- Revision 1.2, 08-16-2024: Reviewed SDS for accuracy. STN/GW Creation date for SDS 07-27-2018. STN 08/16/2024 / 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) 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 Irritation 2A: Serious eye damage/eye irritation – Category 2A
- * Data compared to the previous version altered.