Printing date 01/13/2022

Reviewed on 01/13/2022

### **1** Identification

- · Product identifier
- Trade name: <u>Hydrogen Sulfide</u> Saturated Solution
- · Article number: M-036

• 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 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

- The product is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements

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.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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Saturated Solution

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0.4%

99.6%

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· **vPvB:** Not applicable.

### **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 7783-06-4 Hydrogen Sulfide

#### · Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

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

· Description of first aid measures

- · General information: No special measures required.
- · 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.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Dilute with plenty of water.
- *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.
- · 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: 7783-06-4 Hydrogen Sulfide

0.51 ppm (Contd. on page 3)

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27 ppm

50 ppm

· PAC-3:

· PAC-2:

CAS: 7783-06-4 Hydrogen Sulfide

CAS: 7783-06-4 Hydrogen Sulfide

## 7 Handling and storage

· Handling:

- · Precautions for safe handling No special measures required.
- 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: None.
- 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:

CAS: 7783-06-4 Hydrogen Sulfide

- PEL Ceiling limit value: 20; 50\* ppm \*10-min peak; once per 8-hr shift
- REL Ceiling limit value: 15\* mg/m<sup>3</sup>, 10\* ppm \*10-min
- TLV Short-term value: 5 ppm Long-term value: 1 ppm

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

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · 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.

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#### Trade name: Hydrogen Sulfide Saturated Solution

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· 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: Goggles recommended during refilling.

· Body protection: Protective work clothing

# 9 Physical and chemical properties

· Information on basic physical and c	homical properties	
· General Information	nemicai properties	
· 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.	
· 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 g/cm <sup>3</sup> (8.345 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
$\cdot$ Partition coefficient (n-octanol/wate	<b>r</b> ): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	99.6 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
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Trade name: Hydrogen Sulfide Saturated Solution

• 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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4h 25,000 mg/l

CAS: 7783-06-4 Hydrogen Sulfide

Inhalative LC50/4h 100 mg/l (ATE)

· Primary irritant effect:

• on the skin: No irritant effect.

- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· 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.

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#### Trade name: Hydrogen Sulfide Saturated Solution

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- · 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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name		
DOT, ADN, IATA	Not regulated	
IMDG	Not Regulated	
	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.	

#### **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):
- CAS: 7783-06-4 Hydrogen Sulfide

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Trade name:	Hydrogen	Sulfide
	Saturated	Solution

Section 313 (Specific toxic chemical listings):     CAS: 7783-06-4 [Hydrogen Sulfide     TSCA (Toxic Substances Control Act):     Water         ACTIVE     Water         ACTIVE     Hydrogen Sulfide         ACTIVE     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 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 reproductive toxicity for males:     None of the ingredients is listed.     Chemicals known to cause developmental toxicity:     None of the ingredients is listed.     Chemicals known to cause developmental toxicity:     None of the ingredients is listed.     Chemicals known to cause developmental toxicity:     None of the ingredients is listed.     Chemicals known to cause developmental toxicity:     None of the ingredients is listed.     Chemicals known to cause developmental toxicity:     None of the ingredients is listed.     Carcinogenic categories     EPA (Environmental Protection Agency)     CAS: 7783-06-4 [Hydrogen Sulfide     I     TLV (Threshold Limit Vaue)     None of the ingredients is listed.     NIOSH-Ca (National Institute for Occupational Safety and Health)     None of the ingredients is listed.     GHS abel elements Not Applicable     Hazard statements Not Applicable     Hazard statements Not Applicable     Hazard statements Not Applicable     Frecautionary statements     If wallowed: 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.     Dispose of contents/container in accordance with local/regional/national/international regulations.     Chem		(Contd. of page 6)
TSCA (Toxic Substances Control Act):         Water       ACTIVE         Hydrogen Sulfide       ACTIVE         Hazardous Air Pollutants       ACTIVE         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.         • Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:       None of the ingredients is listed.         • Carcinogenic categories       •         • EPA (Environmental Protection Agency)       CAS: 7783-06-4         • VIOSH-Ca (National Institute for Occupational Safety and Health)       None of the ingredients is listed.         • NOSH -Ca (National Institute for Occupational Safety and Health)       None of the ingredients is listed.         • Hazard pictograms Not Applicable       •       •         • Hazard statements Not Applicable	· Section 313 (Specific toxic chemical listings):	
Water       ACTIVE         Hydrogen Sulfide       ACTIVE         Hydrogen Sulfide       ACTIVE         Idaardous Air Pollutants       None of the ingredients is listed.         Proposition 65       -         Chemicals known to cause cancer:       None of the ingredients is listed.         Order 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)       -         CAS: 7783-06-4       Hydrogen Sulfide       1         TLV (Threshold Limit Value)       -         None of the ingredients is listed.       -       -         NONe of the ingredients is listed.       -       -         OKINGOA (National Institute for Occupational Safety and Health)       -       None of the ingredients is listed.         None of the ingredients Not Applicable       -       -       -         Hazard pictogr	CAS: 7783-06-4 Hydrogen Sulfide	
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<ul> <li>TLV (Threshold Limit Value) None of the ingredients is listed. </li> <li>NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. </li> <li>GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable Hazard statements Not Applicable Precautionary statements 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. Dispose of contents/container in accordance with local/regional/national/international regulations.</li></ul>	· EPA (Environmental Protection Agency)	
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Survey and the second of the s	· 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 01-10-2022, removed fluoride and sulfate from ingredients. STN Creation date for SDS 10-30-2018. STN 01/13/2022 / 1.0* 

(Contd. on page 8)

<sup>-</sup> US

Printing date 01/13/2022

## Trade name: Hydrogen Sulfide Saturated Solution

Reviewed on 01/13/2022

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US

• 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
• * Data compared to the previous version altered.