Printing date 06/19/2024

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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA Article number: 8567 Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. Agua Solutions, Inc. 0913 Highway 225 DEER PARK, TX 77536 USA Doetails of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. Agua Solutions, Inc. 0913 Highway 225 DEER PARK, TX 77536 USA Sterman Nelson shermann@aguasolutions.org Sherman Nelson shermann@aguasolutions.org Ferregrency telephone number: Chemice: 6013-996-6666 Claustic 613-996-6666 Carutice: 613-996-6666 Carcinogenicity 2 GHS08 Health hazard Carcinogenicity 2 GHS08 Health hazard Carcinogenicity 2 GHS05 Corrosion Corrosive to Metals 1 H290 May be corrosive to metals. Virgo GHS07 Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation. Eye Irritation 2A H317 May cause an allergic skin reaction. Lizel elements H317 May cause an allergic skin reaction. <td< th=""><th>Product identifier</th><th></th></td<>	Product identifier	
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Agua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Technical Coordinator Sherman Nelson sherman@aquasolutions.org Temergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 Hazard(S) identification Classification of the substance or mixture Off Stobe Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. OffS05 Corrosion Corrosive to Metals 1 H290 May be corrosive to metals. OffS05 Corrosion Chrono Charlon 2 H315 Causes skin irritation. Eye Irritation 2 H315 Causes skin irritation. Eye Irritation 2, H315 Causes and allergic skin reaction. Eve Irritation 2, H317 May cause an allergic skin reaction. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Cause I cause an allergic skin reaction. 		
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 Technical Coordinator Sherman Nelson shermann@aquasolutions.org Temergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 PHazard(s) identification Classification of the substance or mixture ✓ ✓ GHS08 Health hazard Carcinogenicity 2 GHS05 Corrosion Corrosive to Metals 1 H290 May be corrosive to metals. ✓ ✓ GHS07 Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2 A H319 Causes serious eye irritation. Eye Irritation 2 A H317 May cause an allergic skin reaction. Label elements H317 May cause an allergic skin reaction. Etable lelements Hamoduct is classified and labeled	Article number: 8567	
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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA

	(Contd. of page 1)
· Signal word Warning	
· Hazard-determining components of labeling:	
Hydroxylamine Sulfate	
· Hazard statements	
May be corrosive to metals.	
Causes skin irritation.	
Causes serious eye irritation.	
May cause an allergic skin reaction.	
Suspected of causing cancer.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep only in original container.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present a	nd easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
Absorb spillage to prevent material damage.	
Store locked up.	
Store in corrosive resistant container with a resistant inner liner.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 0	
$\frac{2}{Reactivity} = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 0 Fire = 0	
REACTIVITY $\begin{bmatrix} 0 \end{bmatrix}$ Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <i>PBT:</i> Not applicable.	
· vPvB : Not applicable.	

(Contd. on page 3)

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(Contd. of page 2)

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.1	Compos	11101/11	formation	on ingred	dients .
~	compos		101110000000	011 112	

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 10039-54-0	Hydroxylamine Sulfate	11.101%
· Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	77.798%
CAS: 7647-14-5	Sodium Chloride	11.101%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

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 and to be sure call for a doctor.

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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA

Dispose contaminated material as waste according to section 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	(Contd. of page 3)
· PAC-1:	
CAS: 10039-54-0 Hydroxylamine Sulfate	$2.8 mg/m^3$
· PAC-2:	
CAS: 10039-54-0 Hydroxylamine Sulfate	31 mg/m ³
· PAC-3:	
CAS: 10039-54-0 Hydroxylamine Sulfate	190 mg/m ³

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.*
- · Information about protection against explosions and fires:
- Prevent impact and friction. 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 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.
- 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 and skin.

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(Contd. of page 4)

- 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 \cdot *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

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
General Information Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Odorless
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 (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard. Risk of explosion by shock, friction, fire or other sources of ignition.

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	(Con	td. of page 5)
· 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):	1.081 g/cm³ (9.02095 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
\cdot Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	77.8 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	11.1 %	
• 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)

 Oral
 LD50
 4,504 mg/kg

 Dermal
 LD50
 9,909 mg/kg

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritating effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

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

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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA

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:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely 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.

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

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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA

	(Contd. of page 7)
· 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.
· Transport/Additional information:	
· DOT · Remarks:	Not regulated
· IMDG · Remarks:	Not regulated
· IATA · Remarks:	Not regulated
· 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

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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 Chloride Hydroxylamine Sulfate

• *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.

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Trade name: Sodium Chloride-Hydroxylamine Sulfate 12%, APHA

(Contd. of page 8)

· 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: Hydroxylamine Sulfate · Hazard statements May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. 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. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container in accordance with local/regional/national/international regulations.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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 0.1, 06/18/2024: Reviewed SDS for accuracy. MH/STN
Creation date for SDS 08-05-2014. STN
06/19/2024 / 1.0
· 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
Corrosive to Metals 1: Corrosive to metals – Category 1
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
• * Data compared to the previous version altered.