Printing date 05/07/2021

Reviewed on 05/07/2021

1 Identification

- · Product identifier
- Trade name: <u>Synthetic Sea Water</u> Heavy Metals ASTM D1141
- · Article number: 9126
- 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*

- @aquasolutions.org aber:
- 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.

Store in a closed container.

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

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



· HMIS-ratings (scale 0 - 4)

HEALTHImage: OHealth = 0FIREImage: OFire = 0REACTIVITYImage: OReactivity = 0

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

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components: Not Applicable

• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	95.805%
CAS: 7647-14-5	Sodium Chloride	2.454%
CAS: 7791-18-6	Magnesium Chloride Hexahydrate	1.11%
CAS: 7757-82-6	Sodium Sulfate Anhydrous	0.409%
CAS: 10043-52-4	Calcium Chloride	0.116%
CAS: 7447-40-7	Potassium Chloride	0.069%
CAS: 144-55-8	Sodium Bicarbonate	0.02%
CAS: 7758-02-3	Potassium Bromide	0.01%
CAS: 10025-70-4	Strontium Chloride Hexahydrate	0.004%
CAS: 10043-35-3	Boric Acid	0.003%
CAS: 7681-49-4	Sodium Fluoride	0.0003%

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.*

Do not allow to enter sewers/ surface or ground water.

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Methods and mate	rial for containment and cleaning up:	(Contd. of page
	-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contamina	nted material as waste according to item 13.	
Reference to other		
	nformation on safe handling.	
	nformation on personal protection equipment. disposal information.	
	Criteria for Chemicals	
PAC-1:		
	Magnesium Chloride Hexahydrate	34 mg/m ³
	Sodium Sulfate Anhydrous	9.8 mg/m^3
CAS: 10043-52-4	* •	12 mg/m ³
	Sodium Bicarbonate	13 mg/m^3
	Potassium Bromide	$9.2 mg/m^3$
CAS: 10043-35-3		$\frac{5.2 \text{ mg/m}^3}{6 \text{ mg/m}^3}$
CAS: 7681-49-4		17 mg/m ³
CAS: 10022-31-8		$\frac{17 \text{ mg/m}}{2.9 \text{ mg/m}^3}$
CAS: 10022-51-8		0.24 mg/m
	Zinc Nitrate, Reagent Grade	27 mg/m^3
	Manganese Nitrate Hydrate, 98% Cupric Nitrate Hydrate	$11 mg/m^3$
		42 mg/m ³
	Silver Nitrate	0.047 mg/r
PAC-2:		
	Magnesium Chloride Hexahydrate	370 mg/n
	Sodium Sulfate Anhydrous	110 mg/n
CAS: 10043-52-4	Calcium Chloride	130 mg/n
CAS: 144-55-8	Sodium Bicarbonate	140 mg/n
CAS: 7758-02-3	Potassium Bromide	100 mg/n
CAS: 10043-35-3	Boric Acid	23 mg/m
CAS: 7681-49-4	Sodium Fluoride	90 mg/m
CAS: 10022-31-8	Barium Nitrate	350 mg/n
CAS: 10099-74-8	Lead Nitrate	180 mg/n
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	300 mg/n
CAS: 15710-66-4	Manganese Nitrate Hydrate, 98%	18 mg/m
CAS: 19004-19-4	Cupric Nitrate Hydrate	150 mg/n
	Silver Nitrate	0.9 mg/m
<i>PAC-3:</i>		
	Magnesium Chloride Hexahydrate	1,600 mg/n
	Sodium Sulfate Anhydrous	650 mg/m ³
	Calcium Chloride	790 mg/m
	Sodium Bicarbonate	840 mg/m ³
	Potassium Bromide	610 mg/m^{-3}
CAS: 1738-02-3		830 mg/m ³
		~
CAS: 7681-49-4	Sodium Fluoride	<i>1,100 mg/m</i> (Contd. on pag

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Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

		(Contd. of page 3)
CAS: 10022-31-8		$2,100 mg/m^3$
CAS: 10099-74-8		1,100 mg/m ³
	Zinc Nitrate, Reagent Grade	1,800 mg/m ³
	Manganese Nitrate Hydrate, 98%	110 mg/m ³
CAS: 19004-19-4	Cupric Nitrate Hydrate	240 mg/m ³
CAS: 7761-88-8	Silver Nitrate	$5.4 mg/m^3$

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: 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 item 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:
- 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.

· 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.

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Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

• *Eye protection: Goggles recommended during refilling.* • *Body protection: Protective work clothing*

9 Physical and chemical properties

General InformationLiquid ColoriesAppearance:Liquid ColoriesForm:Liquid ColoriessOdor threshold:Not determined.• pH-value:Not determined.• pH-value:Not determined.• Change in condition Melting point/Melting range:0 °C (32 °F) Boiling point/Melting range:Boiling point/Boiling range:100 °C (212 °F)• Flash point:Not applicable.• Flash point:Not applicable.• Pamability (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):1.04013 g/cm³ (8.67988 lbs/gal)• Relative density Vor determined.Not determined.• Vapor density Vapor densityNot determined.• Solubility in / Miscibility with Water:Fully miscible.• Partition coefficient (n-octanol/water): Not determined.• Viscosity: Dynamic: Not determined.Not determined.• Solvent content: Water:95.8 % 0.00 % 0.00 g/1 / 0.00 lb/gal• Solids content:4.2 %	· Information on basic physical and c	hemical properties
Form:LiquidColor:ColorlessOdor threshold:Not determined.• pH-value:Not determined.• pH-value:Not determined.• Change in condition Melting point/Boiling 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.• Vapor pressure at 20 °C (68 °F):23 hPa (17.3 mm Hg)• Density at 20 °C (68 °F):1.04013 g/cm³ (8.67988 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.• Solubility in / Miscibility with Water:Fully miscible.• Partition coefficient (n-octanol/water): Not determined.• Viscosity: Dynamic: Kinematic:Not determine		
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• 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: Iower: 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): 1.04013 g/cm³ (8.67988 lbs/gal) • Relative density Not determined. • Vapor density Not determined. • Vapor density Not determined. • Vapor density Not determined. • Solubility in / Miscibility with Water: • Fully miscible. Fully miscible. • Partition coefficient (n-octanol/water): Not determined. • Viscosity: Not determined. • Solvent content: Not determined. • Vater: 95.8		
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Solids content: 4.2 %		0.0 g/i / 0.00 lD/gal
	Solids content:	4.2 %
• <i>Other information</i> No further relevant information available.	• Other information	No further relevant information available.

Reviewed on 05/07/2021

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Reviewed on 05/07/2021

Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

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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.
- 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 Can	cer)
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CAS: 7681-49-4 Sodium Fluoride

CAS: 10099-74-8 Lead Nitrate

· NTP (National Toxicology Program)

CAS: 10099-74-8 Lead Nitrate

· 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 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.

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Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

• 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.

Transport information		
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:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	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.

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· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 10022-31-8 Barium Nitrate

CAS: 10099-74-8 Lead Nitrate

CAS: 10196-18-6 Zinc Nitrate, Reagent Grade

CAS: 15710-66-4 Manganese Nitrate Hydrate, 98%

CAS: 7761-88-8 Silver Nitrate

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Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

Water ACTI Sodium Chloride ACTI Sodium Chloride ACTI Content Choride ACTI Sodium Sulfate Anhydrous ACTI Content Choride ACTI Potassium Browide ACTI Potassium Browide ACTI Potassium Browide ACTI Sodium Fluoride ACTI Sodium Fluoride ACTI Bariam Nitrate ACTI Bariam Nitrate ACTI Sodium Fluoride ACTI Bariam Nitrate ACTI Soliver Nitrate ACTI Soliver Nitrate ACTI Hazardous Air Pollutants CAS: 15009-74-8 [Lead Nitrate Mydrate, 98% Content 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 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 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 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 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 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 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 reproductive toxicity for males: NOBAS (DDI) Chemicals known to cause reproductive toxicity for males: NOBAS (DDI) Chemicals known to cause reproductive toxicity for males: NOBAS	TSCA (Toxic Substances Control Act):	(Contd. of pa
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TLV (Threshold Limit Value) CAS: 10043-35-3 Boric Acid CAS: 7681-49-4 Sodium Fluoride CAS: 10022-31-8 Barium Nitrate CAS: 10099-74-8 Lead Nitrate NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable	CAS: 10099-74-8 Lead Nitrate	<i>B2</i>
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CAS: 7681-49-4Sodium FluorideCAS: 10022-31-8Barium NitrateCAS: 10099-74-8Lead NitrateNIOSH-Ca (National Institute for Occupational Safety and Health)None of the ingredients is listed.GHS label elements Not ApplicableHazard pictograms Not ApplicableSignal word Not Applicable	TLV (Threshold Limit Value)	
CAS: 10022-31-8Barium NitrateCAS: 10099-74-8Lead NitrateNIOSH-Ca (National Institute for Occupational Safety and Health)None of the ingredients is listed.GHS label elements Not ApplicableHazard pictograms Not ApplicableSignal word Not Applicable	CAS: 10043-35-3 Boric Acid	
CAS: 10099-74-8 Lead Nitrate NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable	CAS: 7681-49-4 Sodium Fluoride	
NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable	CAS: 10022-31-8 Barium Nitrate	
None of the ingredients is listed. GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable	CAS: 10099-74-8 Lead Nitrate	
GHS label elements Not Applicable Hazard pictograms Not Applicable Signal word Not Applicable	NIOSH-Ca (National Institute for Occupational Safety and Health)	
Hazard pictograms Not Applicable Signal word Not Applicable	None of the ingredients is listed.	
Signal word Not Applicable	GHS label elements Not Applicable	
	Hazard pictograms Not Applicable	

Printing date 05/07/2021

Reviewed on 05/07/2021

Trade name: Synthetic Sea Water Heavy Metals ASTM D1141

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· 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.

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
- *Revision 1.0 05-07-2021: updated hazard information. STN Revision 1.0, 05-07-2021: Updated hazard information. STN* 05/07/2021 / -

• 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