Printing date 06/14/2024

Reviewed on 06/14/2024

· Product identifier	
Trade name: Sodium Azide	
9% w/v Solution	
Article number: ND501	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225	SOLUTIONS
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	
Hazard(s) identification	
Classification of the substance or mixture	
GHS06 Skull and crossbones	
Silboo Shall and crossbolles	
Acute Toxicity - Dermal 3 H311 Toxic in contact with skin.	
GHS07	
•	
Acute Toxicity - Oral 4 H302 Harmful if swallowed.	
Label elements	ing to the Globally Harmonized System (0
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<ul> <li>Label elements</li> <li>GHS label elements The product is classified and labeled accord</li> <li>Hazard pictograms</li> <li>GHS06</li> <li>Signal word Danger</li> <li>Hazard-determining components of labeling: Sodium Azide</li> <li>Hazard statements</li> <li>Harmful if swallowed. Toxic in contact with skin.</li> <li>Precautionary statements</li> <li>Wash thoroughly after handling. Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves / protective clothing.</li> </ul>	ing to the Globally Harmonized System (0

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(Contd. of page 1) Specific treatment (see on this label). Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH <sup>2</sup> Health = 2 0 FIRE Fire = 0**REACTIVITY** O 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 components:

CAS: 26628-22-8 Sodium Azide

 $\cdot$  Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

#### **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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- 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. Then consult a doctor.
- · After swallowing: Immediately call a 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.

(Contd. on page 3)

8.643%

91.357%

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#### **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:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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).
- 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:

CAS: 26628-22-8 Sodium Azide

· PAC-2:

CAS: 26628-22-8 Sodium Azide

· PAC-3:

CAS: 26628-22-8 Sodium Azide

#### 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.

(Contd. on page 4)

 $0.026 \ mg/m^3$ 

 $0.29 \ mg/m^3$ 

 $5.3 mg/m^{3}$ 

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· Com	
	ponents with limit values that require monitoring at the workplace:
CAS	: 26628-22-8 Sodium Azide
REL	Ceiling limit value: 0.3** mg/m³, 0.1* ppm *as HN3; **as NaN3; Skin
TLV	Ceiling limit value: 0.29** mg/m³, 0.11* ppm *as HN3 vapor **as NaN3, A4
· Addi	tional information: The lists that were valid during the creation were used as basis.
<ul> <li>Pers</li> <li>Gena Keep Imm Wash Store Avoi</li> <li>Brea</li> </ul>	osure controls onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. ed contact with the eyes and skin. tthing equipment: Not required. ection of hands:
The	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due chen	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the nical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation
• <b>Mate</b> The varie	erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Pene	etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be rved.
obse	protection: Goggles recommended during refilling.

· General Information		
· Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
		(Contd. on page 5)

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	9% w/v Solution

	(Contd. d	of page
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.	
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):	1.0413 g/cm³ (8.68965 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	e <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	91.4 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	8.6 %	
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.

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11 Toxicological information
· Information on toxicological effects
· Acute toxicity:
· LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimate)
Oral LD50 312 mg/kg (rat)
Dermal LD50 231 mg/kg (rabbit)
· 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 shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Harmful
· 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- $\cdot$  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.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

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

· UN-Number	
· DOT, IMDG, IATA	UN3287
· UN proper shipping name	
$\cdot DOT$	Toxic liquid, inorganic, n.o.s. (Sodium Azide)
· IMDG, IATA	TOXIC LIQUID, INORGANIC, N.O.S. (Sodium Azide)
· Transport hazard class(es)	
·DOT	
TOXIC 8	
· Class	6.1 Toxic substances
· Label	6.1
·IMDG	
· Class · Label	6.1 Toxic substances 6.1
· IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Product contains environmentally hazardous substances: Soa Azide
· Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
• Hazard identification number (Kemler code):	
· EMS Number:	F-A,S-A
· Segregation groups	(SGG17) Azides
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.

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	(Contd. of page 7
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{EQ}$ )	Code: E1
1 1 ( 2)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM AZIDE), 6.1, II

## **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: 26628-22-8 Sodium Azide	
Section 313 (Specific toxic chemical listings):	
CAS: 26628-22-8 Sodium Azide	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Sodium Azide	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 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)	
CAS: 26628-22-8 Sodium Azide	A4
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#### · 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 Danger
- Hazard-determining components of labeling: Sodium Azide
   Hazard statements
- Harmful if swallowed. Toxic in contact with skin.
- Precautionary statements
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Wear protective gloves / protective clothing.
  If swallowed: Call a poison center/doctor if you feel unwell.
  If on skin: Wash with plenty of water.
  Specific treatment (see on this label).
  Rinse mouth.
- Take off immediately all contaminated clothing and wash it before reuse.
- Store locked up.
- 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 0.1, 06/14/2024: Reviewed SDS for accuracy. MH/STN 06/14/2024 / 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

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Dermal 3: Acute toxicity – Category 3 • \* Data compared to the previous version altered.