Printing date 07/22/2024

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Reviewed on 07/22/2024

Identification	
Identification	
Product identifier	
Trade name: Sodium Azide 20% w/w	
in 0.5% w/w Iodine	
Article number: ND639	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Aqua Solutions, Inc.	AQUA
6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 800-256-2586	
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolutions.org	
<i>Emergency telephone number:</i> <i>Chemtrec:</i> 800-424-9300	
Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 2	H310 Fatal in contact with skin.
$\mathbf{A}$	
GHS08 Health hazard	
Succific Tana et Ous au Taniaitu Dan agtad Euro aguna 1	11272 Causes damages to superior through muchaneed
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged or repeated exposure.
· · · · · · · · · · · · · · · · · · ·	
GHS07	
$\checkmark$	
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
Label elements	
GHS label elements The product is classified and labe Hazard pictograms	led according to the Globally Harmonized System (GHS).
GHS06 GHS07 GHS08	
Signal word Danger	
Signal word Danger	
Hazard-determining components of labeling: Sodium Azide	
Potassium Iodide	

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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

	(Contd. of page 1)
Iodine *DEA regulated item	
· Hazard statements	
Toxic if swallowed.	
Fatal in contact with skin.	
May cause respiratory irritation.	
Causes damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Do not get in eyes, on skin, or on clothing.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves / protective clothing.	
If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label).	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation.	<i>s</i> .
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3  0  Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 $Health = 3$	
FIRE 0 $Fire = 0$	
<b>REACTIVITY</b> Reactivity = $0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT</b> : Not applicable.	
• <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
5 Composition myor matter on ingreatents	

· Chemical characterization: Mixtures

\*

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

• Dangerous comp	onents:		
CAS: 7681-11-0	Potassium Iodide		20.0%
CAS: 26628-22-8	Sodium Azide		20.0%
CAS: 7553-56-2	Iodine *DEA regulated item		0.5%
		(Contd.	on page 3)
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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

(Contd. of page 2)

59.5%

#### · 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: Do not induce vomiting; immediately call for medical help.

• 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. · 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. 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 · PAC-1: CAS: 7681-11-0 Potassium Iodide  $1.3 mg/m^3$ (Contd. on page 4) us

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#### Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

		(Contd. of page 3)
CAS: 26628-22-8	Sodium Azide	$0.026 mg/m^3$
CAS: 7553-56-2	Iodine *DEA regulated item	0.1 ppm
· PAC-2:		
CAS: 7681-11-0	Potassium Iodide	100 mg/m3
CAS: 26628-22-8	Sodium Azide	0.29 mg/m <sup>3</sup>
CAS: 7553-56-2	Iodine *DEA regulated item	0.5 ppm
· PAC-3:		
CAS: 7681-11-0	Potassium Iodide	620 mg/m3
CAS: 26628-22-8	Sodium Azide	$5.3 mg/m^3$
CAS: 7553-56-2	Iodine *DEA regulated item	5 ppm

## 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: 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

· Com	ponents with limit values that require monitoring at the workplace:	
CAS:	r 7681-11-0 Potassium Iodide	
TLV	Long-term value: 0.01 ppm A4; Skin; *inhalation	
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	
CAS:	7553-56-2 Iodine *DEA regulated item	
PEL	Ceiling limit value: 1 mg/m <sup>3</sup> , 0.1 ppm	
REL	Ceiling limit value: 1 mg/m³, 0.1 ppm	
TLV	Long-term value: 0.01** mg/m³, 0.001* ppm Skin, A4,*inh. fraction/vapor; **Inhalable	
· Addi	tional information: The lists that were valid during the creation were used as basis.	
		(Contd. on page 5)

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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

(Contd. of page 4)

- · 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.
- · 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 · 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 a General Information	chemical properties	
Appearance:	Liquid	
Form: Color:	Liquid Brown	
Odor:	Mild	
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.	

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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

	(Contd. of page
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):	1.61485 g/cm <sup>3</sup> (13.47592 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:	59.5 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	40.5 %
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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 134 mg/kg

Dermal LD50 100 mg/kg (rabbit)

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#### Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

(Contd. of page 6)

- · 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
- 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. 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.

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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

(Contd. of page 7)

· UN-Number · DOT, IMDG, IATA	UN3287
· UN proper shipping name · DOT · IMDG, IATA	Toxic liquid, inorganic, n.o.s. (Sodium Azide) TOXIC LIQUID, INORGANIC, N.O.S. (Sodium Azide)
· Transport hazard class(es)	
· Class · Label	6.1 Toxic substances 6.1
	6 I Touis substances
· Class · Label	6.1 Toxic substances 6.1
· IATA	
· Class · Label	6.1 Toxic substances 6.1
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t <b>II of</b> Not applicable.
· UN "Model Regulation":	UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM AZID 6.1, II

# **15 Regulatory information**

\*

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

· Sara		(Contd. of page
	emely hazardous substances):	
CAS: 26628-22-8	•	
Section 313 (Spec	ific toxic chemical listings):	
CAS: 26628-22-8		
	stances Control Act):	
Water		ACTIV
Potassium Iodide		ACTIV
Sodium Azide		ACTIV
Iodine *DEA regi	lated item	ACTIV
· Hazardous Air Po		
None of the ingred		
· Proposition 65		
· Chemicals known	to cause cancer:	
None of the ingred		
	to cause reproductive toxicity for females:	
None of the ingred		
v 0	to cause reproductive toxicity for males:	
None of the ingred	· · · ·	
	to cause developmental toxicity:	
None of the ingrea	lients is listed.	
Carcinogenic cat	gories	
	ntal Protection Agency)	
None of the ingrea	lients is listed.	
• TLV (Threshold )	imit Value)	
CAS: 26628-22-8	Sodium Azide	A
CAS: 7553-56-2	Iodine *DEA regulated item	A
NIOSH-Ca (Nati	onal Institute for Occupational Safety and Health)	·
None of the ingred	lients is listed.	
CAS: 7553-56-2 NIOSH-Ca (Nation None of the ingred	Iodine *DEA regulated item <b>mal Institute for Occupational Safety and Health</b> ) lients is listed. <b>hts</b> The product is classified and labeled according to the Glob <b>ts</b>	

Hazard-determining components of labeling: Sodium Azide
Potassium Iodide
Iodine \*DEA regulated item
Hazard statements
Toxic if swallowed.
Fatal in contact with skin.

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Reviewed on 07/22/2024

#### Trade name: Sodium Azide 20% w/w in 0.5% w/w Iodine

	(Contd. of page 9)
May cause respiratory irritation.	
Causes damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Do not get in eyes, on skin, or on clothing.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves / protective clothing.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
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 1.2 07/22/2024: Reviewed SDS for accuracy. MH/STN 07/22/2024 / 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 Acute Toxicity - Oral 3: Acute toxicity – Category 3 Acute Toxicity - Dermal 2: Acute toxicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1  $\cdot$  \* Data compared to the previous version altered.

US