Printing date 11/27/2023

Reviewed on 11/27/2023

1 Identification

- · Product identifier
- Trade name: Iodine 0.315N Solution
- · Article number: MID224
- · 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*

· Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to organs through prolonged or repeated exposure.

GHS05 Corrosion

Eye Damage 1

GHS07

H318 Causes serious eye damage.

Skin Irritation 2

H315 Causes skin irritation.

· Label elements

• 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: Iodine *DEA regulated item Potassium Iodide

· Hazard statements Causes skin irritation.

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Trade name: Iodine 0.315N Solution

Causes damage to organs through prolonged or repeated exposure. • Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eve protection of 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. Immediately call a poison center/doctor. 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 occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4) Health = 3 Fire = 0 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH Health = 3 Fire = 0 Reactivity = 0 • Uther hazards Results of PBT and vPvB assessment • PBT: Not applicable.		l. of page 1)
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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

• Dangerous comp		
CAS: 7681-11-0	Potassium Iodide	7.24%
CAS: 7553-56-2	Iodine *DEA regulated item	3.062%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5	Water	89.698%

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: In case of unconsciousness place patient stably in side position for transportation.

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- 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: If symptoms persist consult doctor.
- Information for doctor:

Trade name: Iodine 0.315N Solution

- 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.
- \cdot 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

Mount respirate	utions, protective equipment and emergency procedures ary protective device.	
*	equipment. Keep unprotected persons away.	
Environmental		
	oduct to reach sewage system or any water course.	
1	e authorities in case of seepage into water course or sewage system.	
Dilute with plen		
	enter sewers/ surface or ground water.	
	aterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing		
Dispose contam	inated material as waste according to section 13.	
Ensure adequate	e ventilation.	
Reference to oth	her sections	
a a		
See Section 7 fo.	r information on safe handling.	
	r information on safe handling. r information on personal protection equipment.	
See Section 8 for		
See Section 8 for See Section 13 f	r information on personal protection equipment.	
See Section 8 for See Section 13 f	r information on personal protection equipment. For disposal information.	
See Section 8 for See Section 13 for Protective Actio PAC-1:	r information on personal protection equipment. For disposal information.	1.3 mg/m
See Section 8 for See Section 13 for Protective Action PAC-1: CAS: 7681-11-0	r information on personal protection equipment. For disposal information. In Criteria for Chemicals	1.3 mg/m ⁻ 0.1 ppm
See Section 8 fo. See Section 13 f Protective Actio PAC-1: CAS: 7681-11-0 CAS: 7553-56-2	r information on personal protection equipment. or disposal information. n Criteria for Chemicals Potassium Iodide	-
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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

· Components with limit values that require monitoring at the workplace:

CAS: 7681-11-0 Potassium Iodide

TLV Long-term value: 0.01 ppm

A4; Skin; *inhalation

CAS: 7553-56-2 Iodine *DEA regulated item

PEL Ceiling limit value: 1 mg/m³, 0.1 ppm

REL Ceiling limit value: 1 mg/m³, 0.1 ppm

TLV Long-term value: 0.01* mg/m³, 0.01* ppm *inh. fraction+vapor; Skin, A4

• 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 skin.

Avoid contact with the eyes and skin.

• 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

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· 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 manufacture

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

9 Physical and chemical proper	ties
· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Clear brown
· 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.
· 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):	1.09239 g/cm³ (9.11599 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	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
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		(Contd. of page
Kinematic:	Not determined.	
· Solvent content:		
Water:	89.7 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	10.3 %	
• 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		16,327 mg/kg	
Dermal	LD50	35,918 mg/kg	

Inhalative LC50/4h 49 mg/l

· Primary irritant effect:

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

- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:

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

· Carcinogenic categories

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.

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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, IMDG, IATA	Not regulated
· UN proper shipping name · DOT, IMDG, IATA	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	l of
MARPOL73/78 and the IBC Code	Not applicable.

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No further relevant information available. Sara	or mixture
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Potassium Iodide	ACTIVE
Iodine *DEA regulated item	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.	
EPA (Environmental Protection Agency) None of the ingredients is listed.	A4
EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value)	A4



· Signal word Danger

- Hazard-determining components of labeling: Iodine *DEA regulated item Potassium Iodide
- Hazard statements Causes skin irritation. Causes serious eye damage.

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	(Contd. of page 8)
Causes damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Wear eye protection / face protection.	
If on skin: Wash with plenty of water.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	ses, if present and easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
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 occurs: Get medical advice/attention.	
, Dispose of contents/container in accordance with local/regional/national/internatio	onal regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried or	

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 Creation date for SDS 11-27-2023. CMC/STN 11/27/2023 · 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

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

 $Specific \ Target \ Organ \ Toxicity \ - \ Repeated \ Exposure \ 1: \ Specific \ target \ organ \ toxicity \ (repeated \ exposure) \ - \ Category \ 1$

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