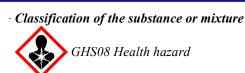
Printing date 05/14/2024

Reviewed on 05/14/2024

# **1** Identification

- · Product identifier
- Trade name: Iodine Starch Test Solution
- · Article number: 13119
- 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
   Technical Coordinator
   Sherman Nelson shermann@aquasolutions.org
   Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

# 2 Hazard(s) identification



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



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. Causes damage to organs through prolonged or repeated exposure.
  Precautionary statements
- Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.

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#### Trade name: Iodine Starch Test Solution

Do not eat, arms or smoke when using inits product.         Wear protective gloves.         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.         Continuer rinsing.         Dispose of contents/container in accordance with local/regional/national/international regulations.         Classification system:         • NFPA ratings (scale 0 - 4)         Image: Plant P	(Contd. of page 1)
If swaltowed: 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. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) Health = 2 Fire = 0 Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 2 Fire = 0 Reactivity = 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · VPvB: Not applicable. · VPvB: Not applicable. · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components: CAS: 7681-11-0 Potassium Iodide 1.955% CAS: 7533-56-2 Iodine *DEA regulated item 1.173%	Do not eat, drink or smoke when using this product. Wear protective gloves
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Dispose of contents/container in accordance with local/regional/national/international regulations.         Classification system:         NFPA ratings (scale 0 - 4)         Image: provide the second	If swallowed: Call a poison center/doctor if you feel unwell.
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• Table of Nonhazardous Ingredients	CAS: 7681-11-0 Potassium Iodide 1.955%
	CAS: 7553-56-2 Iodine *DEA regulated item 1.173%
CAS: 7732-18-5 Water 96.873%	· Table of Nonhazardous Ingredients
	CAS: 7732-18-5 Water 96.873%

## 4 First-aid measures

• Description of first aid measures

• General information:

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.
- 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:

- 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.

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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
- 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	$1.3 mg/m^3$
CAS: 7553-56-2	Iodine *DEA regulated item	0.1 ppm
· PAC-2:		
CAS: 7681-11-0	Potassium Iodide	15 mg/m <sup>3</sup>
CAS: 7553-56-2	Iodine *DEA regulated item	0.5 ppm
· PAC-3:		
CAS: 7681-11-0	Potassium Iodide	87 mg/m <sup>3</sup>
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: None.

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• *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/m<sup>3</sup>, 0.1 ppm

REL Ceiling limit value: 1 mg/m<sup>3</sup>, 0.1 ppm

*TLV* Long-term value: 0.01\* mg/m<sup>3</sup>, 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 · *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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• Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties	
General Information		
Appearance:	T · · · 1	
Form:	Liquid	
Color: Odor:	Dark brown Odorless	
Odor: Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	$100 \ ^{\circ}C \ (212 \ ^{\circ}F)$	
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):	1.02318 g/cm <sup>3</sup> (8.53844 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	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	96.9 %	
VOC content:		
	0.0 g/l / 0.00 lb/gal	
Solids content:	1.2 %	

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#### Trade name: Iodine Starch Test Solution

• 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 (Acu	te Toxicity	<sup>,</sup> Estimate)
Owal	1.050	12622 malka

Orui	LD30	42,055 mg/kg
		93,793 mg/kg
Inhalative	LC50/4h	128 mg/l

## · Primary irritant effect:

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

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### Trade name: Iodine Starch Test Solution

• 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.
- 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.*

Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
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 MARPOL73/78 and the IBC Code	II of Not applicable.	
Transport/Additional information:		
DOT Remarks:	Not regulated	
IMDG Remarks:	Not regulated	
IATA Remarks:	Not regulated	
UN "Model Regulation":	Not regulated	

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No further relevant information available.	
· Sara	
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	ACTIV
Potassium Iodide	ACTIV
Iodine *DEA regulated item	ACTIV
· 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: 7553-56-2 Iodine *DEA regulated item	A
· 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 • Hazard pictograms	Globally Harmonized System (GHS)

- *Hazard-determining components of labeling:* Iodine \*DEA regulated item Potassium Iodide
- *Hazard statements Causes skin irritation. Causes damage to organs through prolonged or repeated exposure.*

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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 protective gloves.
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.
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, 04-15-2024: Reviewed SDS For accuracy. GW/STN Creation date for SDS 08-06-2014. STN 05/14/2024 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 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) - Category 1

\* \* Data compared to the previous version altered.

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