Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 02, 2020

1 Identification
· Product identifier
 Trade name: <u>Potassium lodide Starch Solution</u> Product code: PI1417
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
· Classification of the substance or mixture
STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:
GHS08
 Signal word: Danger Hazard statements: H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. Precautionary statements: P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7681-11-0	potassium iodide	🕸 STOT RE 1, H372	18%
9005-84-9	Amylodextrin		0.5%
7732-18-5	Water		81.5%
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· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

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:

Supply fresh air.

If experiencing respiratory symptoms: Call a doctor.

After skin contact:

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

• Danger: Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. • Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

[•] Advice for firefighters

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· Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

· Environmental precautions 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). Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

[·] Handling

• Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

· Control parameters

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

7681-11-0 potassium iodide

TLV (USA) Long-term value: NIC-0.015** mg/m³, (0.01*) ppm NIC-Skin; *inhalable fraction & vapor **inhal.;

• Exposure controls

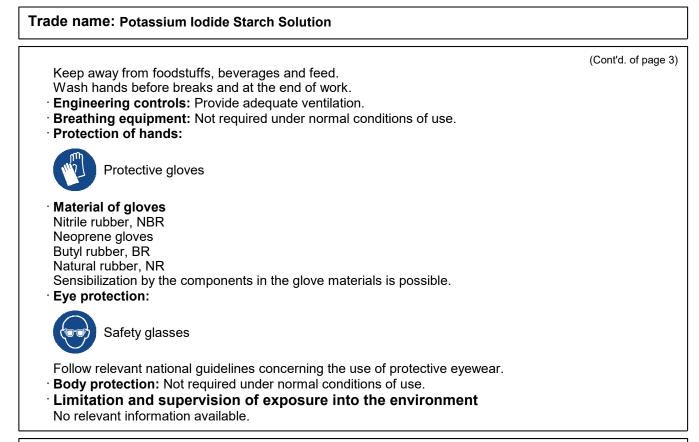
General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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Physical and chemical properties Information on basic physical and chemical properties				
Form:	Liquid			
Color:	According to product specification			
· Odor:	Odorless			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
Melting point/Melting range:	Not determined.			
Boiling point/Boiling range:	100-105 °C (212-157 °F)			
· Flash point:	The product is not flammable.			
Flammability (solid, gaseous):	Not applicable.			
Auto-ignition temperature:	Not determined.			
Decomposition temperature:	Not determined.			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits				
Lower:	Not determined.			
Upper:	Not determined.			
Oxidizing properties:	Not determined.			
		(Cont'd. on pag		

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Trade name: Potassium Iodide Starch Solution (Cont'd. of page 4) · Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) · Density at 20 °C (68 °F): 1.20-1.25 g/cm3 (10.01-10.43 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/water): Not determined. · Viscosity **Dynamic:** Not determined. Kinematic: Not determined. · Other information No relevant information available.

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

- **Conditions to avoid** No relevant information available.
- · **Incompatible materials** No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Halogen gases.

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

7681-11-0 potassium iodide

Oral LD50 3118 mg/kg (rat)

Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

· On the eye: Based on available data, the classification criteria are not met.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

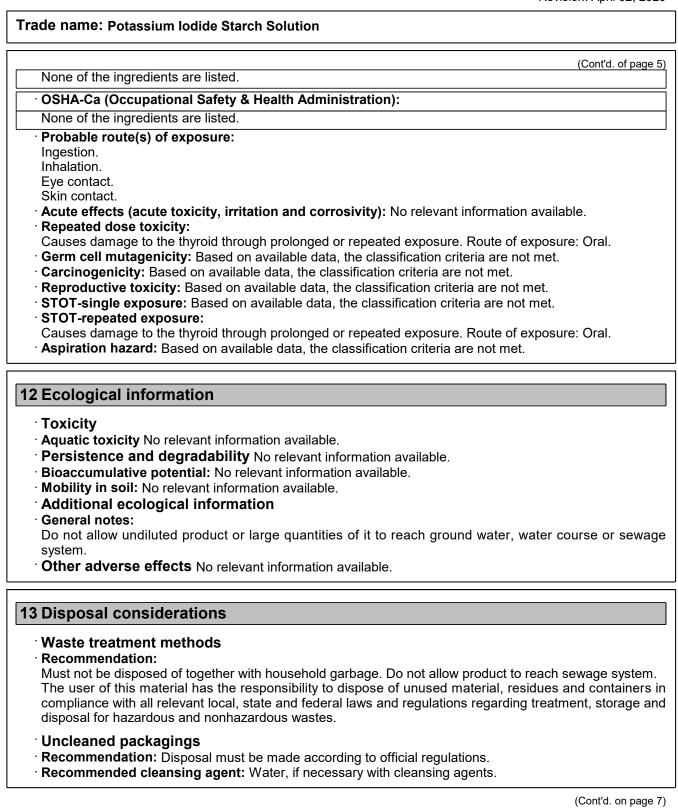
None of the ingredients are listed.

NTP (National Toxicology Program):

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UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Transport hazard class(es)	
DOT, ADR/RID/ADN, IMDG, IATA	
Class	Not regulated.
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Environmental hazards	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	Not applicable.

mixture United Sta SARA	ealth and environmental regulations/legislation specific ates (USA)	
Section 30	02 (extremely hazardous substances):	
None of the	e ingredients are listed.	
Section 3	13 (Specific toxic chemical listings):	
None of the	e ingredients are listed.	
TSCA (To	xic Substances Control Act)	
7681-11-0	potassium iodide	
1310-58-3	Potassium hydroxide	
497-19-8	Sodium carbonate	
	Sodium hydrogencarbonate	
7732-18-5	Water	
Propositio	on 65 (California)	
Chemicals	s known to cause cancer:	
None of the	e ingredients are listed.	
Chemicals	s known to cause developmental toxicity for females:	
None of the	e ingredients are listed.	
Chemicals	s known to cause developmental toxicity for males:	
None of the	e ingredients are listed.	

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• Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

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.

· Abbreviations and acronyms:

Website: www.chemtel.com

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573