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

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1 Identification · Product identifier · Trade name: Potassium lodide, 5% w/v · Product code: PI1400SS 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 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific, Inc. 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. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. (Cont'd. on page 2)

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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

· Compone	nts:	
	Potassium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	0.10%
	Sodium carbonate	0.06%
144-55-8	Sodium hydrogencarbonate	0.05%
7681-11-0	potassium iodide STOT RE 1, H372	5.0%
7732-18-5	Water	94.79%

· 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; consult doctor in case of complaints.
- · After skin contact:

Wash with soap and 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; immediately call for medical help.

- 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

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 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 Protective equipment: Wear self-contained respiratory protective device. 	(Cont'd. of page 2)	

Wear fully protective suit.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation.
 Environmental precautions Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

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.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed 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.

Do not store together with oxidizing and acidic materials.

- 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:

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7004 44 0 m etc	(Cont'd. of page
7681-11-0 potas	
TLV (USA)	Long-term value: NIC-0.015** mg/m³, (0.01*) ppm NIC-Skin; *inhalable fraction & vapor **inhal.;
1310-58-3 Pota	ssium hydroxide
REL (USA)	Ceiling limit value: 2 mg/m ³
TLV (USA)	Ceiling limit value: 2 mg/m³
EL (Canada)	Ceiling limit value: 2 mg/m³
EV (Canada)	Ceiling limit value: 2 mg/m³
LMPE (Mexico)	Ceiling limit value: 2 mg/m³
The usual preca Keep away from Wash hands be Avoid contact w Engineering co Breathing equi Not required uno	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. fore breaks and at the end of work. th the eyes and skin. ontrols: Provide adequate ventilation. pment: der normal conditions of use. piratory protective device when aerosol or mist is formed.
 Material of glov Neoprene glove Nitrile rubber, N Penetration tim 	s BR a e of glove material a through time has to be found out by the manufacturer of the protective gloves and has t
Safety g	
 Body protectio Limitation and 	national guidelines concerning the use of protective eyewear. n: Protective work clothing d supervision of exposure into the environment rmation available.
9 Physical and	I chemical properties

[·] Information on basic physical and chemical properties

- Appearance: Form:
 - Color:

Liquid Colorless

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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.	
·	Not applicable.	
· 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:	Non-oxidizing.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	>1.00 g/cm³ (>8.35 lbs/gal)	
Relative density:	Not determined.	
· Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Easily soluble.	
Partition coefficient (n-octanol/wat	er): 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

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

Contact with acids releases toxic gases.

Reacts with strong oxidizing agents.

· Conditions to avoid No relevant information available.

[·] Incompatible materials

Strong acids

Oxidizers

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[•] Hazardous decomposition products

Under fire conditions only:

lodine compounds

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):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

• Probable route(s) of exposure:

- Ingestion.
- Inhalation.

Eye contact.

Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- · Repeated dose toxicity: Danger of very serious irreversible effects.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

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

12 Ecological information

[·] Toxicity

- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- [•] Additional ecological information

· General notes:

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Do not allow product to reach ground water, water course or sewage system, even in small quantities. **Other adverse effects** No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

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

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

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

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)

· SARA

• Section 302 (extremely hazardous substances):

None of the ingredients are listed.

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Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
TSCA (Toxic Substances Control Act)	
All ingredients are listed or exempt.	
Proposition 65 (California)	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
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.	
Other information	
This information is based on our present knowledge. However, this shall not specific product features and shall not establish a legally valid contractual re	
• Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Roa IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association	ad

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Website, European Chemicals Agency (echa.europa.eu)

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

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

Sources

OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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