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1 Identification
Product identifier
· Trade name: <u>Potassium Iodide, 50% w/v</u> · <b>Product code:</b> DUPI1450-P
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>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</li> <li>Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647</li> </ul>
<ul> <li>Emergency telephone number:</li> <li>ChemTel Inc.</li> <li>(800)255-3924 (North America)</li> <li>+1 (813)248-0585 (International)</li> </ul>
2 Hazard(s) identification
2 Hazard(s) identification Classification of the substance or mixture
<ul> <li>Classification of the substance or mixture</li> <li>STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of</li> </ul>
<ul> <li>Classification of the substance or mixture STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Label elements</li> <li>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> </ul>
<ul> <li>Classification of the substance or mixture STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Label elements</li> <li>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> </ul>
<ul> <li>Classification of the substance or mixture STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> <li>GHS08</li> <li>Signal word: Danger</li> <li>Hazard statements: H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Precautionary statements: P260 Do not breathe dust/fume/gas/mist/vapors/spray.</li> </ul>
<ul> <li>Classification of the substance or mixture STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Label elements</li> <li>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> <li>GHS08</li> <li>Signal word: Danger</li> <li>Hazard statements: H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Precautionary statements:</li> </ul>

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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:		
7732-18-5	Water	40-60%
144-55-8	Sodium hydrogencarbonate	<1.0%
	Potassium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	<1.0%
497-19-8	Sodium carbonate <ul> <li>Eye Irrit. 2A, H319</li> </ul>	<1.0%
7681-11-0	otassium iodide STOT RE 1, H372	40-60%
· 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

### <sup>•</sup> 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.

If experiencing respiratory symptoms: Call a doctor.

### • 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. 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

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### • 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
- · Protective equipment:

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

### 6 Accidental release measures

### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

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

• 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

### <sup>.</sup> 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.

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

### <sup>•</sup> Control parameters

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	(Cont'd. of page
-	vith limit values that require monitoring at the workplace:
7681-11-0 pota	
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 <sup>3</sup>
TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
EL (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>
EV (Canada)	Ceiling limit value: 2 mg/m <sup>3</sup>
LMPE (Mexico)	Ceiling limit value: 2 mg/m³
Wash hands be Avoid contact with Engineering co Breathing equi Not required und Use suitable ress Protection of h Protection of h Safety g Follow relevant to Body protection	der normal conditions of use. spiratory protective device when aerosol or mist is formed. a <b>ands:</b> ive gloves <b>ne of glove material</b> < through time has to be found out by the manufacturer of the protective gloves and has :
	rmation available.
Physical and	t chemical properties
Information o	d chemical properties on basic physical and chemical properties
Appearance:	Liquid
Appearance: Form:	Liquid
Form: Color:	Clear, colorless
Form:	Clear, colorless Odorless

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pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	>100 °C (>212 °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.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	2.07 g/cm³ (17.27 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Not determined.	
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.

### <sup>•</sup> Possibility of hazardous reactions

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

- Conditions to avoid No relevant information available.
- · Incompatible materials No relevant information available.

### <sup>·</sup> Hazardous decomposition products

Under fire conditions only: Halogen gases. Corrosive gases/vapors Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

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	ormation on toxicological effects ute toxicity:
· LD	/LC50 values that are relevant for classification:
768	81-11-0 potassium iodide
Ora	al LD50 3,118 mg/kg (rat)
· On · On	mary irritant effect: the skin: Based on available data, the classification criteria are not met. the eye: Based on available data, the classification criteria are not met. nsitization: Based on available data, the classification criteria are not met.
·IAF	RC (International Agency for Research on Cancer):
No	ne of the ingredients are listed.
·NT	P (National Toxicology Program):
No	ne of the ingredients are listed.
·OS	HA-Ca (Occupational Safety & Health Administration):
No	ne of the ingredients are listed.
Ski • Ac • Re • Ca • Ge • Ca • Ca • ST	e contact. in contact. ute effects (acute toxicity, irritation and corrosivity): No relevant information available. peated dose toxicity: uses damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. rm cell mutagenicity: Based on available data, the classification criteria are not met. rcinogenicity: Based on available data, the classification criteria are not met. productive toxicity: Based on available data, the classification criteria are not met. DT-single exposure: Based on available data, the classification criteria are not met. piration hazard: Based on available data, the classification criteria are not met.
2 Ec	cological information
• Aq • Pe • Bic • Mc	xicity uatic toxicity No relevant information available. rsistence and degradability No relevant information available. baccumulative potential: No relevant information available. bility in soil: No relevant information available. Iditional ecological information
· Ge	neral notes:
D۵	not allow undiluted product or large quantities of it to reach ground water, water course or sew

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Other adverse effects No relevant information available.

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### 13 Disposal considerations

### <sup>•</sup> Waste treatment methods

### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

### <sup>·</sup> Uncleaned packagings

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

· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<sup>·</sup> UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<sup>·</sup> Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<sup>·</sup> Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ː II of	
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.

### • Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

### • TSCA (Toxic Substances Control Act)

7681-11-0 potassium iodide

### 1310-58-3 Potassium hydroxide

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	·	
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497-19-8	Sodium carbonate	
144-55-8	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.	
· Chemicals	s known to cause developmental toxicity:	
None of the	e ingredients are listed.	
· EPA (Envi	ronmental Protection Agency):	
None of the	e ingredients are listed.	
· IARC (Inte	rnational Agency for Research on Cancer):	
None of the	e ingredients are listed.	
Canadian	Domestic Substances List (DSL):	
None of the	e 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: 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 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 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: (Cont'd. on page 9)

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