# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 15, 2019

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Revision: February 15, 2019

	ier
• Trade name: lodi • Product code: S2	
· Recommended u	use and restriction on use use: Laboratory chemicals use: No relevant information available.
<ul> <li>Details of the set</li> <li>Manufacturer/Sup AquaPhoenix Scie</li> <li>860 Gitts Run Roa Hanover, PA 1733 Phone: (717)632-1 Toll-Free: (866)63 info@aquaphoenix</li> <li>Distributor:</li> <li>Fisher Science Ed</li> <li>6771 Silver Crest</li> <li>Nazareth, PA 1806 (800) 955-1177</li> </ul>	Antific, Inc. ad 1291 2-1291 xsci.com Hucation Road
• Emergency telep ChemTel Inc. (800)255-3924 (No +1 (813)248-0585	orth America) (International)
2 Hazard(s) ider	itification
	<ul> <li>of the substance or mixture</li> <li>Causes damage to the thyroid through prolonged or repeated exposure. Route exposure: Oral.</li> </ul>
• Label elements • GHS label elements • The product is clas • Hazard pictogram	<b>nts</b> ssified and labeled according to the Globally Harmonized System (GHS).
GHS08	
<ul> <li>Precautionary sta P260 Do not breat</li> </ul>	ts: nage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

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>90%

<3%

<3%

• 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

   7681-11-0
   potassium iodide

   7553-56-2
   iodine

   Ý Acute Tox. 4, H312; Acute Tox. 4, H332

• Additional information: 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.
- After skin contact:

Immediately rinse with water.

Seek medical treatment in case of complaints.

- 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: Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed: No relevant information available.

 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:

The product is not flammable.

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

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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# 6 Accidental release measures

# • Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

Use personal protective equipment as required.

**Environmental precautions** 

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

- **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:

Use only in well ventilated areas. Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin. Open and handle receptacle with care.

· 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:** Store in cool, dry conditions in well sealed receptacles.

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

· Specific end use(s) No relevant information available.

8 Exposure controls/personal protection				
<sup>.</sup> Control para	<sup>-</sup> Control parameters			
· Components	with limit values that require monitoring at the workplace:			
7681-11-0 pot	assium iodide			
TLV (USA)	Long-term value: NIC-0.015** mg/m <sup>3</sup> , (0.01*) ppm NIC-Skin; *inhalable fraction & vapor **inhal.;			
7553-56-2 iodi	ine			
PEL (USA)	Ceiling limit value: 1 mg/m <sup>3</sup> , 0.1 ppm			
REL (USA)	Ceiling limit value: 1 mg/m <sup>3</sup> , 0.1 ppm			
TLV (USA)	Short-term value: (1) mg/m <sup>3</sup> , (0.1 <sup>**</sup> ) ppm Long-term value: (0.1 <sup>*</sup> ) mg/m <sup>3</sup> , (0.01 <sup>*</sup> ) NIC-0.015 <sup>*</sup> ppm *as inhalable fraction +vapor;**vapor;NIC-Skin			
EL (Canada)	Ceiling limit value: 0.1 ppm			
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EV (Canada)	Ceiling limit value: 1 mg/m <sup>3</sup> , 0.1 ppm	
LMPE (Mexico)	Ceiling limit value: 0.1** mg/m <sup>3</sup> , 0.01* ppm	
	A4, *IFV, **vapor y aerosol	
<sup>.</sup> Exposure cor	ntrols	
<ul> <li>General protect</li> </ul>	tive and hygienic measures:	
	autionary measures for handling chemicals should be followed.	
	n foodstuffs, beverages and feed.	
	fore breaks and at the end of work.	
	mist, vapors, or spray. vith the eyes and skin.	
	ontrols: Provide adequate ventilation.	
	ipment: Not required under normal conditions of use.	
· Protection of h		
Protect	tive gloves	
· Eye protection	:	
Safety	glasses	
Follow relevant	national guidelines concerning the use of protective eyewear.	
	n: Protective work clothing	
	d supervision of exposure into the environment	
	rmation available.	
<sup>.</sup> Risk manage	ment measures No relevant information available.	
9 Physical and	d chemical properties	
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<sup>·</sup> Information on basic physical a	nd chamical properties	
· Appearance:	id chemical properties	
Form:	Fluid	
Color:	Brown	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Melting point/Melting range:</li> </ul>	Not determined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	>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.	
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· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
<ul> <li>Oxidizing properties:</li> </ul>	Non-oxidizing.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:		
Relative density:	>1.08	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Soluble.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<sup>·</sup> 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 acids and oxidizing agents. Toxic fumes may be released if heated above the decomposition point. Contact with acids releases toxic gases.

Conditions to avoid Avoid acids.

· Incompatible materials Strong acids

· Hazardous decomposition products 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.

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#### · 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.

- 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.
- · 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.
- <sup>•</sup> Additional ecological information
- · General notes: Avoid release to the environment.
- <sup>·</sup> Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 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.

# **14 Transport information**

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<sup>·</sup> UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<ul> <li>UN proper shipping name</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
<sup>·</sup> Transport hazard class(es)		
<ul> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> <li>Class</li> </ul>	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<b>c II of</b> Not applicable.	

15 Regulatory information
<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>United States (USA)</li> <li>SARA</li> </ul>
· Section 302 (extremely hazardous substances):
None of the ingredients are listed.
· Section 355 (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)
All ingredients are listed.
· 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.
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#### · 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) (Substances not listed.):

All 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 PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Acute Tox. 4: Acute toxicity - Category 4 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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