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

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<ul> <li>Product identifier</li> <li>Trade name: loding. <u>Tincture, approx. 2% Solution</u></li> <li>Product code: S29944</li> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquePhoenix Scientific, Inc. 860 Gitts Run Road</li> <li>Hanover, PA 17331</li> <li>Phone: (717)832.1231</li> <li>Toll-Free: (666)832.1201</li> <li>info@aquaphoenixsci.com</li> <li>Distributor:</li> <li>Fisher Science Education 6777 Silver Crest Road, Nazareth, PA 18064</li> <li>(800) 955-1177</li> <li>Emergency telephone number: ChemTel Inc. (800) 255-1177</li> <li>Emergency telephone number: ChemTel Inc. (800) 255-1177</li> <li>ChemTel Inc. (800) 255-1177</li> <li>Classification of the substance or mixture</li> <li>Fisher Science Education 671 Silver Crest Road, Nazareth, PA 18064</li> <li>(800) 955-1177</li> <li>Classification of the substance or mixture</li> <li>Fisher Science Iduction and a vapor. STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure. Cral.</li> <li>Label elements</li> <li>GHS label olements</li> <li>GHS label olements</li> <li>GHS label olements</li> <li>Signal word: Danger</li> <li>Hazard statements: Hazard Statements: Hazard</li></ul>	1 Identification		
<ul> <li>Product code: \$25944</li> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331</li> <li>Phone: (717)R32-1291</li> <li>Toll-Free: (860;832-1291 Info@aquaphoenixsci.com</li> <li>Distributor:</li> <li>Fisher Science Education</li> <li>6771 Silver Crest Road, Nazareth, PA 18064</li> <li>(800) 955-1177</li> <li>Emergency telephone number: ChemTel Inc. (800) 255-5324 (North America) +1 (813)248-0585 (International)</li> </ul> 2 Hazard(s) identification 3 Classification of the substance or mixture Fiam. Lig. 3 H226 Fiammable liquid and vapor. STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. 4 Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). 4 Hazard point alabeled according to the Globally Harmonized System (GHS). 4 Hazard point alabeled according to the Globally Harmonized System (GHS). 4 Hazard statements: Hazard point alabeled according to the Globally Harmonized System (GHS). 4 Hazard Signal word: Danger 4 Hazard statements: Hazard point alabeled according to the Globally Harmonized System (GHS). 4 Hazard Statements: Hazard Statem	<sup>.</sup> Product identifi	er	
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<ul> <li>Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 660 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 Info@aquaphoenixsci.com</li> <li>Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177</li> <li>Emergency telephone number: ChemTel Inc. (800) 255-5324 (North America) +1 (813)248-0585 (International)</li> <li>Z Hazard(s) identification</li> <li>Classification of the substance or mixture Fiam. Liq. 3 H226 Flammable liquid and vapor. STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Label elements Of Is label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> <li>Signal word: Danger</li> <li>Hazard statements: H226 Flammable liquid and vapor. H327 Causes damage to the thyroid through prolonged or repeated exposure: Oral.</li> <li>Valse Jagent Statements: H226 Flammable liquid and vapor. H327 Causes damage to the thyroid through prolonged or repeated exposure: Oral.</li> <li>Yazard statements: H226 Flammable liquid and vapor. H327 Causes damage to the thyroid through prolonged or repeated exposure: Oral.</li> <li>Pato Babel elements H226 Flammable liquid and vapor. H327 Causes damage to the thyroid through prolonged or repeated exposure: Oral.</li> <li>Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P240 Ground/hond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ventilating/lighting/equipment.</li> </ul>	· Recommended u	se: Laboratory chemicals	
ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) <b>2 Hazard(s) identification</b> • <b>Classification of the substance or mixture</b> Flam. Liq. 3 H226 Flammable liquid and vapor. STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. • <b>Label elements</b> • <b>CHS label elements</b> • <b>The product is classified and labeled according to the Globally Harmonized System (GHS).</b> • <b>Hazard pictograms:</b> • <b>GHS02</b> GHS08 • <b>Signal word:</b> Danger • <b>Hazard statements:</b> H226 Flammable liquid and vapor. H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral. • <b>Precautionary statements:</b> P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment.	Manufacturer/Su AquaPhoenix Scie 860 Gitts Run Roa Hanover, PA 1733 Phone: (717)632-1 Toll-Free: (866)63 info@aquaphoenix Distributor: Fisher Science Ed 6771 Silver Crest Nazareth, PA 180	pplier: Intific, Inc. ad 1291 2-1291 ksci.com	
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	P240	Ground/bond container and receiving equipment.	
	P241	Use explosion-proof electrical/ventilating/lighting/equipment.	(Cont'd. on page 2)

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

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#### Trade name: Iodine, Tincture, approx. 2% Solution (Cont'd. of page 1) P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves and eye protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. P314 P370+P378 In case of fire: Use for extinction: Alcohol resistant foam or water spray. Store in a well-ventilated place. Keep cool. P403+P235 Dispose of contents/container in accordance with local/regional/national/international P501 regulations. • Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

## · Chemical characterization: Mixtures

· Compone	nts:	
7732-18-5	Water	56.60%
7553-56-2	iodine () Acute Tox. 4, H312; Acute Tox. 4, H332	2.00%
7681-11-0	potassium iodide STOT RE 1, H372	2.00%
64-17-5	Ethanol Flam. Liq. 2, H225 Eye Irrit. 2A, H319	39.40%
اممر فالجام الم	information	

#### 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: Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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:

# Dizziness

(Cont'd. on page 3)

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

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## Trade name: lodine, Tincture, approx. 2% Solution

(Cont'd. of page 2)

Coughing Causes eye irritation. Vision disorders. Breathing difficulty Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Disorientation • 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 necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

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

## **5** Fire-fighting measures

#### • Extinguishing media

Suitable extinguishing agents: Alcohol resistant foam Carbon dioxide Gaseous extinguishing agents Water fog / haze Water spray Fire-extinguishing powder
For safety reasons unsuitable extinguishing agents: Water stream.
Special hazards arising from the substance or mixture Flammable liquid and vapor. 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.

#### Additional information:

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered receptacles with water in flooding quantities.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation.
Keep away from ignition sources.
Protect from heat
 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

(Cont'd. on page 4)

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(Cont'd. of page 3)

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

## 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:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

<sup>•</sup> Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### • Exposure controls

### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

• Engineering controls: Provide adequate ventilation.

• Breathing equipment: Suitable respiratory protective device recommended.

Protection of hands:

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Trade name: Iodine, Tincture, approx. 2% Solution

(Cont'd. of page 4)

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Material of gloves** Laminated film gloves. Butyl rubber, BR Neoprene gloves Fluorocarbon rubber (Viton) Natural rubber, NR Sensibilization by the components in the glove materials is possible. **Not suitable are gloves made of the following materials:** PVA gloves PVC gloves **Eye protection:** 

Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

• Limitation and supervision of exposure into the environment No special requirements. • Risk management measures No special requirements.

9 Physical and chemical prop	erties	
Information on basic physical	and chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Violet	
· Odor:	Alcohol-like	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Melting point/Melting range:	Not determined.	
· Boiling point/Boiling range:	Not determined.	
· Flash point:	24-30 °C (75.2-86 °F) (Estimated Range)	
<sup>.</sup> 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.	
<ul> <li>Oxidizing properties:</li> </ul>	Not determined.	
		(Cont'd. on page

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		(Cont'd. of pa
Vapor pressure:	Not determined.	
Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/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
- Flammable liquid and vapor.

Reacts violently with oxidizing agents.

Reacts with strong acids.

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

### Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Incompatible materials No relevant information available.

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

Under fire conditions only:

Carbon monoxide and carbon dioxide

lodine compounds

# 11 Toxicological information

# <sup>·</sup> Information on toxicological effects

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

- · LD/LC50 values that are relevant for classification: None.
- · 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):

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Trade name: Iodine, Tincture, approx. 2% Solution

	(Cont'd. of page 6
64-17-5 Ethanol	1 (Cont d. of page 0
NTP (National Toxicology Program):	ł
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 availab	le.
Repeated dose toxicity: Possible risk of 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.	
<b>Reproductive toxicity:</b> 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: 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**

### <sup>·</sup> 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:

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.

# 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. Residual materials should be treated as hazardous.

### <sup>·</sup> Uncleaned packagings

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

· Recommended cleansing agent:

Clean area with absorbent material and place in closed container appropriate for storage of flammable waste.

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UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1170
UN proper shipping name DOT ADR/RID/ADN, IMDG	Ethanol solutions ETHANOL SOLUTION (ETHYL ALCOHO SOLUTION)
IATA	ETHANOL SOLUTION
Transport hazard class(es) DOT	
Class Label	3 3
ADR/RID/ADN	
Class Label	3 (F1) 3
	5
Class Label	3 3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	III
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Flammable liquids 30 F-E,S-D

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

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<ul> <li>United States</li> <li>SARA</li> </ul>	SA) (Cont'd. of pag
· Section 302 (e	remely hazardous substances):
None of the ing	dients are listed.
· Section 313 (S	ecific toxic chemical listings):
None of the ing	dients are listed.
· TSCA (Toxic S	bstances Control Act)
64-17-5 Etha	ol
7681-11-0 pota	
7553-56-2 iodi	
7732-18-5 Wat	
	on to cause cancer: efers specifically to alcoholic beverage consumption and is not applicable for product.
· Chemicals kno	n to cause developmental toxicity for females:
None of the ing	dients are listed.
· Chemicals kno	n to cause developmental toxicity for males:
	dients are listed.
	<b>In to cause developmental toxicity:</b> efers specifically to alcoholic beverage consumption and is not applicable for product.
· EPA (Environn	ental Protection Agency):
None of the ing	dients are listed.
· IARC (Internat	nal Agency for Research on Cancer):
64-17-5 Ethan	
Canadian Dom	stic Substances List (DSL):
	dients are listed.
None of the ing	

 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 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 4
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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# Trade name: Iodine, Tincture, approx. 2% Solution

(Cont'd. of page 9) 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 Website: www.chemtelinc.com