According to Canadian Hazardous Products Regulations and WHMIS 2015

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# **lodine Solution, 0.10N**

# **SECTION 1: Identification**

Product identifier

Product name: Iodine Solution, 0.10N

Product code: S25937

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory

**Uses advised against:** Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

### Manufacturer or supplier details

Manufacturer: Supplier: United States United States

AquaPhoenix Scientific Fisher Science Education 860 Gitts Run Road 6771 Silver Crest Road

Hanover Nazareth
PA 17331 PA 18064
(717) 632-1291 800 955-1177

## **Emergency telephone number:**

**United States** 

Emergency Telephone No.: 800-255-3924

# **SECTION 2: Hazard identification**

### **GHS** classification:

Specific target organ toxicity - repeated exposure, category 1

# **Label elements**

#### Hazard pictograms:



Signal word: Danger

#### **Hazard statements:**

H372 Causes damage to organs through prolonged or repeated exposure.

#### **Precautionary statements:**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin 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 and container as instructed in Section 13.

# Hazards not otherwise classified: None

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# Iodine Solution, 0.10N

# **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7732-18-5	Water	94.4
CAS number: 7553-56-2	lodine	1.3
CAS number: 7681-11-0	Potassium Iodide	4.3

**Additional Information: None** 

### **SECTION 4: First-aid measures**

## **Description of first-aid measures**

#### General notes:

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

#### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

# After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lenses, if present and easy to do

Continue rinsing

Get medical advice/attention

#### **After ingestion:**

Rinse mouth and then drink plenty of water

Do not induce vomiting

Get medical advice/attention if you feel unwell

# Most important symptoms and effects, both acute and delayed

# Acute symptoms and effects:

Not determined or not available.

# **Delayed symptoms and effects:**

Not determined or not available.

### Immediate medical attention and special treatment

#### **Specific treatment:**

Not determined or not available.

## Notes for the doctor:

Not determined or not available.

# **SECTION 5: Fire-fighting measures**

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### **Iodine Solution, 0.10N**

#### **Extinguishing media**

### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

# Unsuitable extinguishing media:

Not determined or not applicable.

# Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

## Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

## **Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

# Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Not determined or not applicable.

### **SECTION 7: Handling and storage**

# Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only with adequate ventilation.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Store away from foodstuffs.

## **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

According to Canadian Hazardous Products Regulations and WHMIS 2015

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# Iodine Solution, 0.10N

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	lodine	7553-56-2	OSHA PEL Cieling: 0.1 ppm (1mg/m3)
ACGIH	lodine	7553-56-2	ACGIH TLV TWA: 0.1 ppm
	Potassium lodide		ACGIH TLV 0.01 mg/m³, inhalable fraction and vapor (iodides)

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

# Information on monitoring procedures:

Not determined or not applicable.

# **Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Personal protection equipment

## **Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

# General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

Perform routine housekeeping.

Wash contaminated clothing before reusing.

### **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance (physical state, color):	Dark brown liquid
Odor:	Weak iodine odor
Odor threshold:	Not available
pH-value:	Not available
Melting/Freezing point:	Below 0°C
Boiling point/range:	Approx. 100°C
Flash point:	Not available
Evaporation rate:	>1
Flammability (solid, gaseous):	Not available
Explosion limit upper:	Not available
Explosion limit lower:	Not available
Vapor pressure:	Not available
Vapor density:	0.7

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# Iodine Solution, 0.10N

Density:	Not available
Relative density:	Approx. 1 - 1.05
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	Not available
Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

# SECTION 10: Stability and reactivity

## Reactivity:

Does not react under normal conditions of use and storage.

# **Chemical stability:**

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

None known.

# Incompatible materials:

None known.

# **Hazardous decomposition products:**

None known.

# **SECTION 11: Toxicological information**

### **Acute toxicity**

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

Product data: No data available.

**Substance data:** 

Name	Route	Result
Iodine	oral	LCLo - Dog: 800 mg/m3
	inhalation	LCLo - Rat: 137 ppm/1 Hr

#### Skin corrosion/irritation

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

Product data: No data available.

Substance data:

Name	Result
Iodine	Causes skin irritation.

# Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

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# **lodine Solution, 0.10N**

Product data: No data available.

Substance data:

Name	Result
Iodine	Causes serious eye irritation.

#### Respiratory or skin sensitization

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

**Product data:** No data available. **Substance data:** No data available.

## Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

## Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

### Reproductive toxicity

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

**Product data:** No data available. **Substance data:** No data available.

# Specific target organ toxicity (single exposure)

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

Product data: No data available.

Substance data:

Name	Result
Iodine	Causes damage to organs through prolonged or repeated exposure.
	May cause respiratory irritation.
Potassium Iodide	Oral - May cause damage to organs through prolonged or repeated exposure - thyroid gland

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Causes damage to organs through prolonged or repeated exposure

**Product data:** No data available. **Substance data:** No data available.

# Aspiration toxicity

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

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# Iodine Solution, 0.10N

# **SECTION 12: Ecological information**

### Acute (short-term) toxicity

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

Product data: No data available.

Substance data:

Name	Result
Iodine	EC50 - Daphnia magna: 330 ug/L (48 hrs)
	LC50 - Ictalurus punctatus: 440 ug/L

### Chronic (long-term) toxicity

**Product data:** No data available. **Substance data:** No data available.

## Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

# **Bioaccumulative potential**

**Product data:** No data available. **Substance data:** No data available.

### Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects: No data available.

# **SECTION 13: Disposal considerations**

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

# **Canadian Transportation of Dangerous Goods (TDG)**

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## **International Maritime Dangerous Goods (IMDG)**

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None

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# **lodine Solution, 0.10N**

Environmental hazards	None
Special precautions for user	None

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name	None	
Ship type	None	
Pollution category	None	

## **SECTION 15: Regulatory information**

#### Canada regulations

### **Domestic substances list (DSL):**

7732-18-5	Water	Listed
7553-56-2	Iodine	Listed
7681-11-0	Potassium Iodide	Listed

Non-domestic substances list (NDSL): Not determined.

# **SECTION 16: Other information**

# **Abbreviations and Acronyms: None**

### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 2-0-0 **HMIS:** 2-0-0

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**End of Safety Data Sheet**