Safety Data Sheet

lodine Solution, 0.05M

Section 1 Product Description

Product Name: lodine Solution, 0.05M

Recommended Use: Science education applications

Synonyms: N/A

Supplier: C2A Sales & Supplies (Barbados) Ltd.

#3 Canewood Road, Jackson, St. Michael, Barbados BB11005

1-246-426-1256

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



WARNING

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life.

GHS Classification:

Skin Sensitisation Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3

Section 3	Composition / Information on Ingre	Composition / Information on Ingredients			
Chemical Name	CAS#	<u>%</u>			
Water	7732-18-5	98.7			
lodine	7553-56-2	1.3			

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse. If skin irritation or rash

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or

label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: None Known

Section 6 Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of

employees in the area responding to the spill. Avoid contact with clothing. Avoid contact with skin and eyes.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Do not allow the spilled product to enter public drainage system or open waterways.

Section 7 Handling and Storage

Handling:

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Keep

container dry.

Storage: Suitable for any general chemical storage.

Storage Code: Green - general chemical storage

Section 8 Protection Information

Chemical Name

(TWA)

(STEL)

(TWA)

(STEL)

(TWA)

(STEL)

(Inhalable fraction (aerosol and vapor)

and vapor)

Control Parameters

Boiling Point: 100 C

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Decomposition Temperature: No data available

work.

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3 Vapor Pressure: N/A

Molecular Weight: 253.80 g/molEvaporation Rate (BuAc=1): N/AAppearance: Brown LiquidVapor Density (Air=1): N/AOdor: Mild CharacteristicSpecific Gravity: 1.05

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available
 Melting Point: No data available
 Autoignition Temperature: No data available

Flash Point: No data available

Viscosity: No data available

Flammable Limits in Air: N/A

Percent Volatile by Volume: 98%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Elevated temperatures

Incompatible Materials: Water-reactive materials, Metals (ferrous), Acetaldehydes, Rust, Strong reducing agents,

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Hazardous Decomposition Products: Acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry N/A Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

lodine 7553-56-2 Oral LD50 Mouse

22000 mg/kg Oral LD50 Rat 14000 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAIodine7553-56-2Not listedNot listedNot listed

Chronic Effects: No evidence of a mut-

Mutagenicity: effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: Evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Mutation data cited., Reproductive data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Adsorbs to sediment, evaporates into atmosphere.

Bioaccumulation: No data

Degradability: No data

Other Adverse Effects: Combines with organics, forming new compounds.

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data availableIodine7553-56-2No data available

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

National Taxicale Due

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

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Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

lodine 7553-56-2 No No No No No

California Prop 65: No California Proposition 65 ingredients

Section 16 Additional Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NIP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value

N/A Not Available TSCA Toxic Substances Control Act

IDLH Immediately dangerous to life and health