Iodine Solution, 0.05M



Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Iodine Solution, 0.05M Science education applications N/A Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

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 Ingredient			
Chemical Name	<u>CAS #</u>	<u>%</u>		

	<u>CAS #</u>	<u>_/0</u>	
Water	7732-18-5	98.7	
lodine	7553-56-2	1.3	

Section 4

First Aid Measures

Emergency and First A	
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 Modio	Lico modio suitable te extinguich surrounding fire

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

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 eves.

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:

Section 8

Protection Information

Green - general chemical storage

	ACGIH		OSH	A PEL	
<u>Chemical Name</u> Iodine	(TWA) 0.01 ppm TWA (inhalable fraction and vapor)	(STEL) 0.1 ppm STEL (aerosol and vapor)	(TWA) N/A	(STEL) N/A	
Control Parameters					
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):					
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 work.				
Gloves:	Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride				

Gloves:

Section 9

Formula: See Section 3 Molecular Weight: 253.80 g/mol Appearance: Brown Liquid Odor: Mild Characteristic Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A

Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.05 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 98%

Section 10

Reactivity: Chemical Stability: **Conditions to Avoid:** Incompatible Materials:

Reactivity Data

No data available Stable under normal conditions. Elevated temperatures Water-reactive materials, Metals (ferrous), Acetaldehydes, Rust, Strong reducing agents, Magnesium, Sulfur, Rubber, Plastics, Halogens

Hazardous Decomposition Products: Hazardous Polymerization:

Acrid smoke and irritating fumes. Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	N/A N/A No data available						
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat	Dermal LD50	Inhalation LC50		
lodine		7553-56-2	90000 mg/kg Oral LD50 Mouse 22000 mg/kg Oral LD50 Rat 14000 mg/kg				
Carcinogenicity:							
Chemical Name lodine		CAS Number 7553-56-2	IARC Not listed	NTP Not listed	OSHA Not listed		
louine		1000-00-2	Not listed	Not listed	Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). Evidence of a sensitization effect. No evidence of negative reproductive effects.						
Acute:	See Section 2						
Chronic:	Mutation data cit	· •	ta cited., Not listed as a		, NTP of OSHA.		
Section 12		Ec	ological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effect	This material is not expected to be harmful to the ecology. No data Adsorbs to sediment, evaporates into atmosphere. No data No data s: Combines with organics, forming new compounds.						
Chemical Name Water Iodine	CAS NumberEco Toxicity7732-18-5No data available7553-56-2No data available						
Section 13		Disp	osal Informati	on			
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	e(s): Not	Determined					
Section 14		Trans	sport Informat	ion			
Ground - DOT Proper N/A	Shipping Name:		Air - IATA Proper S Not regulated for air				
Section 15		Regul	atory Informa	tion			

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
lodine	7553-56-2	No	No	No	No	No

California Prop 65:

No California Proposition 65 ingredients



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Additional Information

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

Ciccoury			
ACGIH	American Conference of Governmental	NTP	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