Iodine Solution, 2%

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Iodine Solution, 2% Science education applications Iodine Sodium Iodide Solution 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;

DANGER

Section 2



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

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 4

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Water	7732-18-5	95.4
Potassium Iodide	7681-11-0	2.6
lodine	7553-56-2	2

Section 4

Section 3

First Aid Measures

Fire or excessive heat may produce hazardous decomposition products.

Emergency and First Aid	d Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
-	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
	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.				
	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.				
Section 5		Firefighting Procedures			
Extinguishing Media: Fire Fighting Methods ar	nd Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.			

Fire and/or Explosion Hazards: Hazardous Combustion Products:

Spill or Leak Procedures

lodine (gas)

Section 6

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. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Isolate area. Keep unnecessary personnel away.

Absorb the liquid and scrub the area with detergent and water. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7

Handling and Storage

Handling:

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. 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.

Storage: Storage Code:

Section 8

Protection Information

Green - general chemical storage

	<u>ACGIH</u>		OSHA PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)
Potassium Iodide	0.01 ppm TWA	N/A	N/A	N/A
	(inhalable fraction			
lodine	and vapor)		N/A	N/A
louine	0.01 ppm TWA (inhalable fraction	0.1 ppm STEL (aerosol and vapor)	IN/A	IN/A
	and vapor)			
Control Parameters				
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when			required when
	a	product to avoid overexpos	sure.	
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			and other protective
	equipment depending	upon conditions of use. In	spect gloves for ch	emical break-through
	and replace at regular	intervals. Clean protective	equipment regular	rly. Wash hands and
	•	with mild soap and water b	efore eating, drinkir	ng, and when leaving
	work.			
Gloves:	No information availab	ble		
Section 9	Physic	al Data		
Formula: See Section 3	Vapor Pressure: No data available			

Formula: See Section 3 Molecular Weight: No data available Appearance: Purple-Yellow Liquid Odor: Moderate Characteristic Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: Estimated 100 C 100 C Flash Point: No data available Flammable Limits in Air: No data available

Specific Gravity: No data available 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: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Section 10

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

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. Dusting. Elevated temperatures Water-reactive materials, Strong oxidizing agents, Peroxides, Metals (ferrous), Acetaldehydes, Rust, Strong reducing agents, Magnesium, Sulfur, Rubber, Plastics, Halogens

Hazardous Decomposition Products: I Hazardous Polymerization:

lodine (gas) Will not occur

Section 11		Toxicit	y Data				
Routes of Entry Symptoms (Acute):	Inhalation and ingestion., Inhalation, ingestion, eye or skin contact. Iodism, Hyperthyroidism, Hypothyroidism, Allergies, Impaired Kidney Function, Cardiovascular system, Central Nervous System Disorders, Pulmonary Edema, Headache						
Delayed Effects:	No data available		, ,				
Acute Toxicity: Chemical Name Water Potassium Iodide Iodine		CAS Number 7732-18-5 7681-11-0 7553-56-2	Oral LD50 Oral LD50 Rat 90000 mg/kg Oral LD50 Mouse 22000 mg/kg Oral LD50 Rat 14000 mg/kg	Dermal LD50	Inhalation LC50		
Carcinogenicity: Chemical Name Potassium Iodide Iodine		CAS Number 7681-11-0 7553-56-2	IARC Not listed Not listed	NTP Not listed Not listed	OSHA Not listed Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	Evidence of a sens No evidence of neg	eratogenic effect (birth					

Section 12

Overview:

Persistence:

Degradability:

Mobility:

Ecological Data

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. No data Dissolved into water, Adsorbs to sediment, evaporates into atmosphere. No data No data No data Combines with organics, forming new compounds.

Eco Toxicity

No data available

No data available

CAS Number

7732-18-5

7681-11-0

7553-56-2

Chemical Name Water Potassium Iodide Iodine

Bioaccumulation:

Other Adverse Effects:

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Section 13

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15	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
Potassium lodide	7681-11-0	No	No	No	No	No
lodine	7553-56-2	No	No	No	No	No
California Prop 65:	No California Proposition 65 ingredients					

Section 16	Additional
	Information

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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	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