## **Gram Iodine**

# **CAR®LINA®** www.carolina.co

## **Product Description**

**Product Name: Recommended Use:** Synonyms: Distributor:

Section 1

Gram Iodine Science education applications Iodine Potassium 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;



Section 2



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

#### **GHS Classification:**

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

## **Composition / Information on Ingredients**

Chemical Name	CAS #	<u>%</u>
Water	7732-18-5	95.1
Potassium Iodide	7681-11-0	3.05
lodine	7553-56-2	1.85

#### Section 4

**Section 3** 

## **First Aid Measures**

Emergency and Firs	t 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.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical
	advice/attention. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Section 5	Firefighting Procedures

Section 6	Spill or Leak Procedures
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides, Hydrogen Iodide, Iodine
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.

## **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.

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. Collect spillage.

## Section 7

Handling:

Storage:

## Handling and Storage

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. Suitable for any general chemical storage.

## Section 8

## Protection Information

	ACGIH		OSHA PEL		
Chemical Name	(TWA)	(STEL)	(TWA)	(STEL)	
Potassium lodide	0.01 ppm TWA (inhalable fraction and vapor)	N/A	N/A	N/A	
lodine	0.01 ppm TWA	0.1 ppm STEL	N/A	N/A	
	(inhalable fraction and vapor)	(aerosol and vapor)			
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Good general room ventilation should be sufficient to control airborne contaminates to safe levels.				
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 work.				
Gloves:	Nitrile				
Section 9	Physic	al Data			

Formula: This product is a mixture. Molecular Weight: N/A Appearance: Red-brown Liquid Odor: None Odor Threshold: No data available **pH:** 4.4-4.8 Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: 17.535 at 20 °C Evaporation Rate (BuAc=1): 1 Vapor Density (Air=1): >1.0 Specific Gravity: 1.0 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

## Section 10

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

## Reactivity Data

No data available 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: Hazardous Polymerization:

Section 11

lodine, Hydrogen lodide, Nitrogen oxides, Carbon dioxide, Carbon monoxide Will not occur

#### Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	N/A Respiratory disorders No data available	, , Eye disorders				
Acute Toxicity: Chemical Name Water Potassium Iodide Iodine		<b>CAS Number</b> 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		<b>CAS Number</b> 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:	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. s: See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.					
Section 12		Ec	ological Data			
Overview:	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.					
<b>NA</b> . 1 1114						

**CAS Number** 

7732-18-5

7681-11-0

7553-56-2

Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/o wildlife. No data Dissolved into water, Adsorbs to sediment, evaporates into atmosphere. No data No data No data Combines with organics, forming new compounds.

Chemical Name Water Potassium Iodide Iodine

Section 13

## **Disposal Information**

**Eco Toxicity** 

No data available

No data available

**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

### Transport Information

**Ground - DOT Proper Shipping Name:** Not regulated for air transport by 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