Gram Iodine



Section 1 Product Description

Product Name: Gram Iodine

Science education applications **Recommended Use:** Synonyms: Iodine Potassium Iodide Solution Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER







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, Skin Sensitisation Category 1, Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Oral Category 4

Composition / Information on Ingredients Section 3

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

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.

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

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.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion:

Firefighting Procedures Section 5

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: Fire or excessive heat may produce hazardous decomposition products. **Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Nitrogen oxides, Hydrogen Iodide, Iodine

Spill or Leak Procedures Section 6

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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.

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 and Storage

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke Handling:

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. Keep away from ... (incompatible materials to be indicated by the

manufacturer).

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

	<u>AC</u>	<u>GIH</u>	<u>OSHA PEL</u>	
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)
Potassium Iodide	0.01 ppm TWA	N/A	N/A	N/A
	(inhalable fraction			
	and vapor)			
lodine	0.01 ppm TWA	0.1 ppm STEL	N/A	N/A
	(inhalable fraction	(aerosol and vapor)		
	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):

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

Lab coat, apron, eye wash, safety shower.

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

Physical Data

Formula: This product is a mixture.

Molecular Weight: N/A Appearance: Red-brown Liquid Odor: No data available

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: 10

Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions. **Conditions to Avoid:** Dusting. Elevated temperatures

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Incompatible Materials: Water-reactive materials, Strong oxidizing agents, Peroxides, Metals (ferrous),

Acetaldehydes, Rust, Strong reducing agents, Magnesium, Sulfur, Rubber, Plastics,

Halogens

Hazardous Decomposition Products:

Iodine, Hydrogen Iodide, Nitrogen oxides, Carbon dioxide, Carbon monoxide

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry N/A

Symptoms (Acute): Respiratory disorders, , Eye disorders

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

Potassium Iodide 7681-11-0

lodine 7553-56-2 Oral LD50 Mouse

22000 mg/kg Oral LD50 Rat 14000 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAPotassium Iodide7681-11-0Not listedNot listedNot listedIodine7553-56-2Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic 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: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: No data

Persistence: Dissolved into water, Adsorbs to sediment, evaporates into atmosphere.

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Combines with organics, forming new compounds.

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Potassium Iodide 7681-11-0

lodine 7553-56-2 No 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

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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 Iodide	7681-11-0	No	No	No	No	No
Iodine	7553-56-2	No	No	No	No	No

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

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