Iodine Potassium Iodide, 6%



Section 1

Product Description

Product Name: Iodine Potassium Iodide, 6% **Recommended Use:** Science education applications

Synonyms: Dilute Lugol's 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







Toxic if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life.

GHS Classification:

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

Section 3

Composition / Information on Ingredients

Chemical Name	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	96
lodine	7553-56-2	6
Potassium Iodide	7681-11-0	2

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and

water. If skin irritation or rash occurs: Get medical advice/attention.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse

mouth. Do NOT induce vomiting.

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: None Known

Hazardous Combustion Products: None Known, Carbon dioxide, Carbon monoxide

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.

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.

Section 7 Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. 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. Avoid contact with skin and eyes. Do not ingest or take internally.

Storage: Store locked up. Suitable for any general chemical storage.

Storage Code: Green - general chemical storage

Section 8 Protection Information

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

Control Parameters

Eye Protection:

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

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

Description Description

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Respirator Type(s):None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

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

available. Wear safety glasses with side shields and a Face shield

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, Polyvinyl chloride, Butyl rubber

Section 9

Physical Data

Formula: See Section 3
Molecular Weight: N/A
Appearance: Colorless

Odor: Strong

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

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: approx. 1 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: N/A

Section 10 Reactivity Data

Reactivity: No data available

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

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

Magnesium, Sulfur, Rubber, Plastics, Halogens, Strong oxidizing agents, Peroxides

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, None Known

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory 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

lodine 7553-56-2 Oral LD50 Rabbit

10000 mg/kg Oral LD50 Rat 14000 mg/kg Oral LD50 Mouse 22000 mg/kg

Potassium Iodide 7681-11-0

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAIodine7553-56-2Not listedNot listedNot listedPotassium Iodide7681-11-0Not 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: This material is not expected to be harmful to the ecology.

Mobility: No data

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

Bioaccumulation: No data
Degradability: No data

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

No data

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

Potassium Iodide 7681-11-0

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:Not regulated for air transport by IATA.

Section 15

Not Regulated

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

Section 16

Additional Information

Revised: 06/16/2017 Replaces: None Printed: 09-28-2017

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

American Conference of Governmental	NTP	National Toxicology Program
Industrial Hygienists	OSHA	Occupational Safety and Health Administration
Chemical Abstract Service Number	PEL	Permissible Exposure Limit
Comprehensive Environmental Response,	ppm	Parts per million
Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
International Agency for Research on Cancer	TLV	Threshold Limit Value
Not Available	TSCA	Toxic Substances Control Act
	IDLH	Immediately dangerous to life and health
	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer Not Available OSHA PEL RCRA RCRA INTERNATIONAL SARA INTERNATIONAL TRANSPORTATION TSCA