

# Safety Data Sheet

## Potassium Iodide

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1

### Product Description

**Product Name:** Potassium Iodide  
**Recommended Use:** Science education applications  
**Synonyms:** Knollide  
**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;

## WARNING



Harmful if swallowed. May cause an allergic skin reaction.

**GHS Classification:**  
Acute Toxicity - Oral Category 4

### Section 3

### Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Potassium Iodide	7681-11-0	100

### 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.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.  
**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:** Hydrogen Iodide

# Safety Data Sheet

## Section 6

## Spill or Leak Procedures

### Methods for Clean-up

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:

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

### Storage:

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

### Storage Code:

Green - general chemical storage

## Section 8

## Protection Information

### Chemical Name

Potassium Iodide

### ACGIH

#### (TWA)

0.01 ppm TWA  
(inhalable fraction  
and vapor)

#### (STEL)

N/A

### OSHA PEL

#### (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):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with dust/mist filter.

#### Respirator Type(s):

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

#### Eye Protection:

#### 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:

Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

## Section 9

## Physical Data

**Formula:** KI

**Molecular Weight:** 166.00

**Appearance:** White Solid

**Odor:** None

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** 681 C

**Boiling Point:** 1323 C

**Flash Point:** No data available

**Flammable Limits in Air:** No data available

**Vapor Pressure:** 1mm at 745°C

**Evaporation Rate (BuAc=1):** No data available

**Vapor Density (Air=1):** No data available

**Specific Gravity:** 3.123 at 20°C

**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 Data

### Reactivity:

Not generally reactive under normal conditions.

### Chemical Stability:

Stable under normal conditions.

### Conditions to Avoid:

Dusting.

### Incompatible Materials:

Strong oxidizing agents, Peroxides

### Hazardous Decomposition Products:

Hydrogen Iodide

### Hazardous Polymerization:

Will not occur

# Safety Data Sheet

## Section 11

## Toxicity Data

**Routes of Entry:** Inhalation and ingestion.  
**Symptoms (Acute):** Iodism, Hyperthyroidism, Hypothyroidism  
**Delayed Effects:** Hyperthyroidism  
Hypothyroidism  
Iodism

### Acute Toxicity:

**Chemical Name**  
Potassium Iodide

**CAS Number**  
7681-11-0

**Oral LD50**  
Not determined

**Dermal LD50**  
Not determined

**Inhalation LC50**  
Not determined

### Carcinogenicity:

**Chemical Name**  
Potassium Iodide

**CAS Number**  
7681-11-0

**IARC**  
Not listed

**NTP**  
Not listed

**OSHA**  
Not 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:** Thyroid  
**Chronic:** Thyroid

## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** This material is expected to have very high mobility in soil. It does not absorb to most soil types.  
**Persistence:** Dissolved into water  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

**Chemical Name**  
Potassium Iodide

**CAS Number**  
7681-11-0

**Eco Toxicity**

## 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:**  
Not regulated for ground transport by US DOT.

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

# Safety Data Sheet

## 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

**California Prop 65:**

No California Proposition 65 ingredients

## Section 16

## Additional Information

**Revised: 04/12/2024**

**Replaces: 02/07/2019**

**Printed: 01-17-2025**

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