

# Safety Data Sheet

## 1. Product and Company Identification

<b>Product Name:</b>	<b>Potassium Iodide Crystals</b>
Product Use(s):	Industrial manufacturing, Food Supplement
Manufacturer/Seller:	Lab Alley LLC
Address:	22111 Highway 71 West, Suite 601, Spicewood, Texas 78669
Emergency Telephone:	Infotrac: 800-535-5053
E-mail:	<a href="mailto:customerservice@laballey.com">customerservice@laballey.com</a>

## 2. Hazards Identification

### GHS Classification

Eye irritation	(Category 2B)
Specific target organ toxicity	(Category 1)Oral, Thyroid

### GHS Label elements, including precautionary statements

Signal Word	Warning
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### Hazard statement(s)

H320	Causes eye irritation
H372	Causes damage to organs (Thyroid) through prolonged or repeated exposure if swallowed.

### Precautionary statement(s)

P264	Wash thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P270	Do not eat, drink or smoke when using this product.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.

### HMIS Classification

<b>Health hazard:</b>	2
<b>Chronic Health Hazard: *</b>	
<b>Flammability:</b>	0
<b>Physical hazards:</b>	0

### Potential Health Effects

<b>Inhalation:</b>	May be harmful if inhaled.
<b>Skin:</b>	May cause skin irritation.
<b>Eyes:</b>	May cause eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.

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### 3. Composition Information

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Chemical Name: Potassium Iodide

Chemical Formula: KI

Molecular weight: 166.00 g/mol

CAS-No.	EC-No.	Concentration
7681-11-0	231-659-4	≥98% w/w

OSHA PEL: Not Established

ACGIH TLV: Not Established

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### 4. First Aid Measures

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#### General Advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the attending doctor.

#### Inhalation

Move victim to fresh air. Seek medical attention if breathing is distressed. If not breathing, administer artificial respiration.

#### Skin Contact

Wash exposed area thoroughly with soap and water. Seek medical attention if irritation persists.

#### Eye Contact

Immediately flush eyes with water for 5 minutes. Remove contact lenses, if present, and flush eyes with water for an additional 10 minutes. Seek medical attention if irritation persists.

#### Ingestion

Do not induce vomiting. Thoroughly rinse mouth with water. Drink a large amount of water. Consult a physician.

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### 5. Firefighting Measures

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#### Extinguishing Media

Water, Alcohol-Resistant Foam, Dry-Chemical, or Carbon Dioxide (CO<sub>2</sub>)

#### Special Hazards

May produce toxic hydrogen iodide and potassium oxide fumes.

#### Advice for Firefighters

Wear self-contained breathing apparatus, if possible.

#### Additional Information

Use of water is acceptable to cool unopened containers

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### 6. Accidental Release Measures

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#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Use a non-combustible material such as sand or vermiculite to cover spill and soak up liquids. Sweep up and shovel dry material. Place spilled material in non-combustible and properly labeled container. Dispose of material according to local regulations (see section 13).

#### Reference to other sections

For disposal see section 13

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## 7. Handling and Storage

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### Precautions for safe handling

Avoid contact with skin and eyes. Safety glasses/goggles and chemical resistant gloves must be worn. Wash hands thoroughly, immediately before and after use. Avoid the use waterless hand cleaners and sanitizers.

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of heat and ignition

### Conditions for safe storage

Store in cool, dry location. Protect from heat, light, and moisture.

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## 8. Exposure Controls and Personal Protection

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### Respiratory protection

Where risk assessment shows respiratory protection is appropriate, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with chemical resistant gloves based on nitrile, neoprene, or rubber construction. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good industrial hygiene practices. Wash and dry hands.

### Eye protection

Safety glasses with side-shields conforming to ANSI Z87.1. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Specific engineering controls

Use adequate ventilation from mechanical source to control airborne dust exposure.

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## 9. Physical and Chemical Properties

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### Appearance

**Form:** Solid/Crystal

**Color:** White to off-white

### Safety data

<b>pH:</b>	6 - 9 at 166 g/l at 25 °C (77 °F)
<b>Melting point/freezing point:</b>	681 °C (1,258 °F)
<b>Boiling point:</b>	1,330 °C (2,426 °F)
<b>Flash point:</b>	Not Flammable
<b>Ignition temperature:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability:</b>	No data available
<b>Lower Explosion Limit(UEL):</b>	N/A
<b>Upper Explosion Limit(LEL):</b>	N/A
<b>Vapor pressure:</b>	1 hPa (1 mmHg) at 745 °C (1,373 °F)
<b>Density:</b>	3.130 g/cm <sup>3</sup>
<b>Specific Gravity</b>	No data available
<b>Water solubility:</b>	58.5% w/w
<b>Partition coefficient n-octanol/water:</b>	No data available

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**9. Physical and Chemical Properties(cont.)**

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<b>Relative vapor density:</b>	No data available
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Viscosity:</b>	No data available

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**10. Stability and Reactivity Data**

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**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Violent reaction or ignition may occur on contact with diazonium salts

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**10. Stability and Reactivity Data (Continued)**

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**Conditions to avoid**

High heat

**Materials to avoid**

Oxidizing agents, Diazonium salts

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions - Hydrogen iodide, Potassium oxide

**Hazardous Polymerizations**

No known occurrences

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**11. Toxicology Information**

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**Acute toxicity**

<b>Oral LD<sub>Lo</sub></b>	1,862mg/kg (oral-mouse)
<b>Inhalation LC<sub>50</sub></b>	No data available
<b>Dermal LD<sub>Lo</sub></b>	1,117mg/kg (ipr-mouse)
<b>Other information on acute toxicity</b>	No data available

**Skin corrosion/irritation**

May Cause Irritation

**Serious eye damage/eye irritation**

May Cause Irritation

**Respiratory or skin sensitization**

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

No data available

**Teratogenicity**

Human teratogenic effects by ingestion. There may be an increased risk of thyroid suppression of newborns exposed to excess amounts of potassium iodide in utero.

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation:** May be harmful if inhaled.  
**Ingestion:** May be harmful if swallowed.  
**Skin:** May cause skin irritation.  
**Eyes:** May cause eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

**Synergistic effects** No data available

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## 12. Ecological Information

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### Toxicity

Not toxic to environment under U.S. EPA regulations. It is possible that large or frequent spills may be hazardous or damaging to the environment.

### Persistence and degradability

Expected to completely degrade under typical circumstances under U.S. EPA standards.

### Bioaccumulative potential

Does not accumulate under U.S. EPA standards

### Mobility in soil

No data available

### PBT and vPvB assessment

No data available

### Other adverse effects

No data available

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## 13. Disposal

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Under applicable U.S. Environmental Protection Agency regulations this material is not considered to be environmentally hazardous in regards to waste disposal.

Follow all local, municipal, U.S. state, and U.S. federal regulations if in the United States of America.

For other countries consult your local, area, or country regulatory authority as applicable to a hazardous product.

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## 14. Transportation and Shipping

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### DOT (US)

UN number: N/A                      Class: N/A                      Packing group: N/A

Proper shipping name: Not Classified

Reportable Quantity (RQ): N/A

Marine pollutant: No

Poison Inhalation Hazard: No

### IMO

Follow current IMDG Code for proper transportation guidelines.

### IATA

Follow current IATA Regulations for proper transportation guidelines.

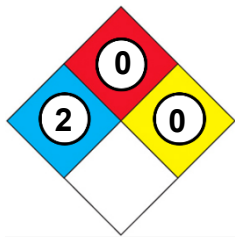
## 15. Regulatory Information

CERCLA Sec. 103 RQ#	NO	EHS 302 TPQ	NO
RCRA Sec. 261.33	NO	TSCA Listed?	YES
SARA Sec. 261.33 RQ#	NO	EPA Special Hazard	NO
SARA 312 Name List	NO	CA Prop 65	NO
SARA 313 Name List	NO	REACH Listed?	NO

## 16. Other Information

The information contained herein is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. The information provide in this document is based on current available data and is applicable to the product with regard to appropriate safety precautions. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Lab Alley LLC assumes no responsibility for injuries from the use of the product described above.

### NFPA Rating



### RESOURCES:

United States Environmental Protection Agency  
 United States Occupational Health and Safety Administration  
 United States Department of Transportation  
 United State Drug Enforcement Administration  
 United Nations "Transport of Dangerous Goods" 17<sup>th</sup> Edition, 2011  
 International Maritime "Dangerous Goods Code"  
 International Air Transportation Association "Dangerous Goods Regulation"

### TERMINOLOGY:

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	<b>RCRA</b>	Resource Conservation and Recovery Act
<b>CA</b>	State of California, U.S.A.	<b>REACH</b>	Registration, Evaluation, Authorization and Restriction of Chemicals
<b>CAS</b>	Chemical Abstract Services	<b>SARA</b>	Superfund And Reauthorization Act
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act	<b>TLV</b>	Threshold Limit Value
<b>EHS</b>	Environmental Health and Safety	<b>TPQ</b>	Threshold Planning Quantity
<b>HEPA</b>	High Efficiency Particulate Air	<b>TSCA</b>	Toxic Substances Control Act
<b>LEL</b>	Lower Explosive Limit	<b>UEL</b>	Upper Explosive Limit
<b>LD<sub>50</sub></b>	Lethal dose for 50% of population	<b>UN</b>	United Nations
<b>IMO</b>	International Maritime Organization	<b>IATA</b>	International Air Transport Association
<b>NIOSH</b>	National Institute of Occupational Safety and Health	<b>EPA</b>	Environmental Protection Agency
<b>OSHA</b>	Occupational Safety and Health Administration	<b>DoT</b>	Department of Transportation
<b>PEL</b>	Permissible Exposure Limits	<b>STEL</b>	Short Term Exposure Limit
<b>CEIL</b>	Ceiling Value	<b>TWA</b>	Time-Weighted Average