

**Potassium Iodide**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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**Product Name:** Potassium Iodide**Synonyms/Generic Names:** Potide; Potassium salt, Iodic acid**SDS Number:** 575.00**Product Use:** For Educational Use Only**Manufacturer:** Columbus Chemical Industries, Inc.  
N4335 Temkin Rd.  
Columbus, WI. 53925**For More Information Contact:** Ward's Science  
5100 West Henrietta Rd.  
PO Box 92912-9012  
Rochester, NY 14692  
(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)**In Case of Emergency Call:** CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

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**2. HAZARDS IDENTIFICATION**

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**OSHA Hazards:** Target organ effect, Harmful by ingestion, Irritant, Teratogen**Target Organs:** Thyroid**Signal Words:** Warning**Pictograms:****GHS Classification:**

Acute toxicity, Oral	Category 4
Skin irritation	Category 2
Eye irritation	Category 2A

**GHS Label Elements, including precautionary statements:****Hazard Statements:**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

**Precautionary Statements:**

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
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### Potential Health Effects

<b>Eyes</b>	Causes eye irritation.
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed.

### NFPA Ratings

<b>Health</b>	1
<b>Flammability</b>	0
<b>Reactivity</b>	0
<b>Specific hazard</b>	Not Available

### HMIS Ratings

<b>Health</b>	1
<b>Fire</b>	0
<b>Reactivity</b>	0
<b>Personal</b>	E

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Component</b>	<b>Weight %</b>	<b>CAS #</b>	<b>EINECS# / ELINCS#</b>	<b>Formula</b>	<b>Molecular Weight</b>
Potassium Iodide	>95	7681-11-0	231-659-4	KI	166.01 g/mol

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## 4. FIRST-AID INFORMATION

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<b>Eyes</b>	In case of eye contact, rinse with plenty of water and seek medical attention.
<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
<b>Ingestion</b>	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

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## 5. FIREFIGHTING MEASURES

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<b>Suitable (and unsuitable) extinguishing media</b>	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Specific hazards arising from the chemical</b>	May produce toxic fumes (potassium oxides, hydrogen iodide) under fire conditions. (See also Stability and Reactivity section)

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions, protective equipment and emergency procedures</b>	See section 8 for recommendations on the use of personal protective equipment. Avoid dust formation.
<b>Environmental precautions</b>	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
<b>Methods and materials for containment and cleaning up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Air, light, and moisture sensitive. Store under inert gas.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Occupational exposure controls:** Contains no substances with occupational exposure limit values.

### Personal Protection

<b>Eyes</b>	Wear chemical safety glasses with side shields or goggles.
<b>Inhalation</b>	Provide local exhaust, preferably mechanical. If necessary use an approved respirator.
<b>Skin</b>	Wear appropriate chemical-resistant gloves, lab coat or apron.
<b>Other</b>	Not Available

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color, etc.)	White crystalline solid
Odor	Odorless
Odor threshold	Not Available
pH	6-9 at 166 g/l at 25°C (77°F)
Melting point/freezing point	681°C (1258°F)
Initial boiling point and boiling range	1330°C (2426°F)
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	125 g/100 mL @ 0°C (32°F); 208 g/100 mL @ 100° (212°F)
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	Moisture, heat.
<b>Incompatible Materials</b>	Strong reducing agents, nickel, strong acids, steel, aluminum, alkali metals, brass, magnesium, zinc, cadmium, copper, tin.
<b>Hazardous Decomposition Products</b>	Hydrogen iodide, potassium oxide

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

<b>Skin</b>	Skin – rabbit – Irritating to skin.
<b>Eyes</b>	Eyes – rabbit – Irritating to eyes – 24 hours – Draize test
<b>Respiratory</b>	Not Available
<b>Ingestion</b>	LD50 Oral – mouse – 1,000 mg/kg

### Carcinogenicity

<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>NTP</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

<b>Skin</b>	Redness, swelling, pain, itchiness, rash
<b>Eyes</b>	Redness, pain, tearing, conjunctivitis
<b>Respiratory</b>	Coughing, wheezing, laryngitis, shortness of breath
<b>Ingestion</b>	Gastrointestinal pain, burning sensation, headache, nausea and vomiting

<b>Chronic Toxicity</b>	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
<b>Teratogenicity</b>	Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism. Iodine-containing drugs have been associated with fetal gloiter.
<b>Mutagenicity</b>	Mutagenic for mammalian somatic cells
<b>Embryotoxicity</b>	Not Available
<b>Specific Target Organ Toxicity</b>	Not Available

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

<b>Aquatic Vertebrate</b>	LC50 – Oncorhynchus mykiss (Rainbow trout)- 2,190 mg/l- 96 h
<b>Aquatic Invertebrate</b>	EC50 – Daphnia magna (Water flea) – 2.7 mg/l – 24 hours
<b>Terrestrial</b>	Not Available

<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulative Potential</b>	Not Available
<b>Mobility in Soil</b>	Not Available
<b>PBT and vPvB Assessment</b>	Not Available
<b>Other Adverse Effects</b>	Not Available

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## 13. DISPOSAL CONSIDERATIONS

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<b>Waste Residues</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.
<b>Product Containers</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

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The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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## 14. TRANSPORTATION INFORMATION

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US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

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## 15. REGULATORY INFORMATION

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TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Potassium Iodide
SARA 312	Potassium Iodide
SARA 313	Not Listed
WHMIS Canada	Class D-2A- Material causing other toxic effects (Very toxic)

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## 16. OTHER INFORMATION

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Revision	Date
Revision 1	02/04/2013

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