



## Material Safety Data Sheet

### POTASSIUM IODIDE

24 Hour Emergency Phone: CHEMTRIC (US) 1-800-424-9300  
CANUTEC (CANADA) 613-996-6666

Date of Preparation: 11/12/09

Revision: 11/12/09

### Section 1 - Chemical Product and Company Identification

BDH0264-2.5KG, BDH0264-500G, BDH0264-125G

Synonyms: Potide; hydriodic acid, potassium salt; Iodic acid, potassium salt

CAS No.: 7681-11-0

Molecular Weight: 166.0

Chemical Formula: KI

Manufacturer: Hawkins, Inc.  
3100 E. Hennepin Avenue  
Minneapolis, MN 55413

Manufactured for: VWR International LLC  
1310 Goshen Parkway  
West Chester, PA 19380

For More Information Call: 1-800-932-5000  
(Monday-Friday, 8:00am-5:00pm)

Email: [chemicals@vwr.com](mailto:chemicals@vwr.com)  
[www.vwr.com](http://www.vwr.com)

### Section 2 - Composition / Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Potassium Iodide	7681-11-0	98-100%	Yes

### Section 3 - Hazards Identification

#### Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

#### Potential Health Effects

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: Large oral doses may cause irritation to the gastrointestinal tract.

Skin Contact: May cause irritation with redness and pain.

Eye Contact: May cause irritation, redness and pain.

Chronic Exposure: Chronic ingestion of iodides may produce "iodism," which may be manifested by skin rash, running nose, headache and irritation of mucous membranes. Weakness, anemia, loss of weight, and general depression may also occur.

#### Aggravation of Pre-existing

Conditions: No information found.

### Section 4 - First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes.

lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

## Section 5 - Fire-Fighting Measures

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0  
**Fire:** Not considered to be a fire hazard.  
**Explosion:** Not considered to be an explosion hazard.  
**Fire Extinguishing**  
**Media:** Use any means suitable for extinguishing surrounding fire.  
**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:** Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## Section 8 - Exposure Controls / Personal Protection

### Airborne Exposure

**Limits:** -ACGIH (TWA) for Iodides:  
0.01 ppm for inhalable fraction and vapor.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### Personal Respirators

**(NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.  
WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Gloves and lab coat, apron or coveralls.

**Eye Protection:** Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

**Appearance:** White Crystals. **Odor:** Odorless.

<b>Solubility:</b> 140 g in 100 g of water.	<b>Density:</b> 3.1
<b>pH:</b> 7-9	<b>% Volatiles by volume @ 21C (70F):</b> 0
<b>Boiling Point:</b> 1330C (2426F)	<b>Melting Point:</b> 680C (1256F)
<b>Vapor Density (Air=1):</b> No information found.	<b>Vapor Pressure (mm Hg):</b> 1 @ 745C (1373F)
<b>Evaporation Rate (BuAc=1):</b> No information found.	

## Section 10 - Stability and Reactivity

<b>Stability:</b>	Stable under ordinary conditions of use and storage. On long exposure to air becomes yellow due to release of iodine.
<b>Hazardous Decomposition</b>	
<b>Products:</b>	Oxides of the contained metal and halogen, possibly also free, or ionic halogen.
<b>Hazardous Polymerization:</b> Will not occur.	
<b>Incompatibilities:</b>	Diazonium salts; diisopropyl peroxydicarboate; oxidants; bromine and chlorine trifluorides; fluorine perchlorate; calomel (mercurous chloride); potassium chlorate; metallic salts; tartaric and other acids.
<b>Conditions to Avoid:</b>	Air, moisture, light and incompatibles.

## Section 11- Toxicological Information

Investigated as a mutagen, reproductive effector.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Potassium Iodide (7681-11-0)	No	No	None

## Section 12 - Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## Section 14 - Transport Information

Not regulated.

## Section 15 - Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia

Potassium Iodide (7681-11-0)	Yes	Yes	Yes	Yes
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-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
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Potassium Iodide (7681-11-0)	Yes	Yes	No	Yes
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-----\Federal, State & International Regulations - Part 1\-----

-SARA 302-----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
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Potassium Iodide (7681-11-0)	No	No	No	No
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-----\Federal, State & International Regulations - Part 2\-----

-RCRA-----TSCA-----

Ingredient	CERCLA	261.33	8(d)
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Potassium Iodide (7681-11-0)	No	No	No
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Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## Section 16 - Other Information

**Label Precautions:**

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

**Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

**Personal Protective**

**Equipment:** Goggles, Lab Coat, Vent Hood, Proper Gloves

**Disclaimer:** FOR LABORATORY USE ONLY. NOT FOR DRUG, FOOD OR HOUSEHOLD USE.

**Prepared By:** EHS&R Department

**Revision Notes:** New product

**Disclaimer:**

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

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