

**MATERIAL SAFETY DATA SHEET**

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DATE REVISED: 7-3-13  
PREPARED BY: T. Phillips

**SECTION 1-Product Identification**

**Product Name: Potassium Iodide**  
**Synonyms: 24165-00, 24165-01, R-459A/R434A**  
**Part Number: 1700640**

**SECTION 2-Composition/Information on Ingredients**

Ingredient(s)	CAS #	Percent	Hazardous
Potassium Iodide	7681-11-0	100	Yes

**SECTION 3-Hazards Identification**

Health Rating: 1  
Flammability Rating: 0  
Reactivity Rating: 0  
Contact Rating: 1  
Lab Protective Equip: gloves, safety goggles, Lab Coat

**SECTION 4-First Aid Measures**

**INHALATION:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. Remove to fresh air.

**INGESTION:** Large oral doses may cause irritation to the gastrointestinal tract. Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** May cause irritation with redness and pain. Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash thoroughly. Get medical attention if irritation develops.

**EYE CONTACT:** May cause irritation with redness and pain. Immediately flush eyes with water for at least 15 minutes lifting upper and lower eyelids occasionally.

**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.

**SECTION 5-Fire Fighting Measures**

Fire: Not considered to be a fire hazard.  
Explosion: Not an explosion hazard  
Fire Extinguishing Media: Fight Surrounding Fire  
Special Information: In the event of 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. Sweep up and containerize for reclamation or disposal.

## **SECTION 7-Handling and Storage**

Keep in a tightly closed container, store in a cool, dry, ventilated area.  
Store at room temperature in a dry area. Prolonged storage is not recommended because of possible degradation problems, including yellowing of the potassium iodide product.

## **SECTION 8-Exposure Controls/Personal Protection**

Airborne Exposure Limits: 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.

Personal Respirators (NIOSH Approved): Not required under normal usage of product. If dust or mist/vapors are present, a NIOSH type N95 or better filter is recommended.

Skin Protection: Rubber Gloves, lab coat (optional)

Eye Protection: Safety Goggles

## **SECTION 9-Physical and Chemical Properties**

Appearance: White crystals.

Odor: Odorless.

Solubility: 140 grams/100gm water.

pH: around 7-9

Boiling Point: 1330C (2426F)

Melting Point: 680C (1256F)

Vapor Density (Air=1): 3.1

Vapor Pressure (mm Hg): 1@745C (1373F)

Evaporation Rate (BuAc=1): no info found

## **SECTION 10-Stability and Reactivity**

**Stability:** Stable. During long exposure to Oxygen/air, iodine will release causing the granules to turn yellow.

**Hazardous Decomposition Products:** Oxides of the contained metal and halogen, possibly free, or ionic halogen.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Diazonium salts; diisopropyl peroxydicarbonate; oxidants; bromine and chlorine trifluorides; fluorine percholate; calomel (mercurous chloride); potassium chlorate; metallic salts; tartaric acid and other acids.

**Conditions to avoid:** Air, moisture, light and incompatibles.

## **SECTION 11-Toxicological Information:**

Routes of absorption: Skin, eyes, ingestion, inhalation

This is not an anticipated or known carcinogen.

## **SECTION 12-Ecological Information**

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

**SECTION 13-Disposal Considerations**

Material must be stored and disposed of in accordance with all local, state and federal laws. Whatever can not be saved for recovery or neutralized should be sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility.

**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

  

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	DSL	--Canada-- NDSL	Phil.
Potassium Iodide(7681-11-0)	Yes	Yes	No	Yes

  

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ	TPQ	-SARA 313- List	Chemical Catg.
Potassium Iodide(7681-11-0)	No	No	No	No

  

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Potassium Iodide(7681-11-0)	No	No	No

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 Hazard Warning:**

DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH.

**NFPA Ratings:** Health:1 Flammability:0 Reactivity:1 Special: (Contact=0)

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