

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (as Used on Label and List)
Potassium Iodide

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code	Emergency Telephone Number
Columbus Chemical Industries, Inc.	CHEMTREC 1 (800) 424-9300
N4335 Temkin Road	Telephone Number for Information
Columbus, WI 53925-0008	1 (920) 623-2140
	Date Prepared
	05-01-2003
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium Iodide	7681-11-0	Not established	Not established	Not established	>95%

Section III - Physical/Chemical Characteristics

Boiling Point	1330°C (2426°F)	Specific Gravity (H ₂ O = 1)	3.13
Vapor Pressure (mm Hg)	Not applicable	Melting Point	681°C (1258°F)
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not applicable
Solubility in Water 125 g/100 mL @ 0 °C (32 °F); 208 g/100 mL @ 100 °C (212 °F);			
Appearance and Odor White, odorless solid.			

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Nonflammable		Not applicable	Not applicable
Extinguishing Media Use extinguishing media appropriate for surrounding fire.			
Special Fire Fighting Procedures In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.			
Unusual Fire and Explosion Hazards May produce toxic fumes under fire conditions.			

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Incompatibles and moisture.
	Stable	X		

Incompatibility Materials to Avoid

Oxidizing agents, reducing agents, acids, metals, organic materials, fluorine perchlorate, bromine trihalides.

Hazardous Decomposition or Byproducts

Hydrogen iodide, iodine oxides, iodine, potassium oxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	X	X	X

Health Hazards (Acute and Chronic)

SKIN: May cause irritation of skin. EYE: May causes eye irritation. INHALATION: May be harmful if inhaled. Material may cause irritation to the mucous membranes and upper respiratory tract. INGESTION: May be harmful if swallowed. May cause reproductive effects and effect genetic material.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	No	No	No

Signs and Symptoms of Exposure.

EYES: Redness, pain, tearing, conjunctivitis. SKIN: Redness, swelling, pain, itchiness, rash. INGESTION: Gastrointestinal pain, burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures

EYES: immediately flush with large amounts of water for at least 15 minutes. SKIN: remove contaminated clothing, wash area with soap and water. Get medical assistance if irritation persists. INHALATION: Seek medical attention if breathing is difficult. INGESTION: Do not induce vomiting. Contact a physician.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and rubber gloves. Sweep up and place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose of material in accordance with all applicable Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant area. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe dust. Protect exposed tissues. Store away from heat and incompatibles.

Other Precautions Containers, even when empty, will retain residue. Always obey hazard warnings and handle empty containers as if they were full. Material will absorb moisture. Light sensitive.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator with dust/mist cartridge.

Ventilation	Local Exhaust	Recommended.	Special	Eye wash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical-resistant gloves. Eye Protection Chemical safety goggles

Other Protective Clothing or Equipment Lab coat or apron.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Do not breathe dust.

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