

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 Iodate

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

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

(920) 623-2140

Date Prepared

12-30-2005

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 Iodate	7758-05-6	Not Available	Not Available	Not Available	

Section III - Physical/Chemical Characteristics

Boiling Point	Decomposes	Specific Gravity (H ₂ O = 1)	Not Available
Vapor Pressure (mm Hg)	Not Available	Melting Point	Not Available
Vapor Density (AIR = 1)	Not Available	Evaporation Rate (Butyl Acetate = 1)	Not Available
Solubility in Water	4.52 g /100 ml.		
Appearance and Odor	White powder		

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Not Applicable		Not Applicable	Not Applicable
Extinguishing Media	Dry chemical, carbon dioxide or alcohol foam.		
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	Potassium oxide and iodine may be liberated under fire conditions. Contact with combustible material may cause acceleration of fire. Oxidizer!		

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	N/A
	Stable	X		

Incompatibility Materials to Avoid

Strong reducing agents in acidic conditions. Reacts with combustible and reducing materials.

Hazardous Decomposition or Byproducts

Oxides of potassium and iodine compounds.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		N/A
	Will Not Occur		

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

Irritating to eyes, skin, mucous membranes and upper respiratory tract. May cause allergic skin reaction.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	No	No	No

Signs and Symptoms of Exposure.

Prolonged exposure may cause skin rash, irritation of the respiratory tract and headache. Ingestion may cause abdominal pain, vomiting and diarrhea.

Medical Conditions Generally Aggravated by Exposure

Asthma, emphysema, other respiratory diseases. Preexisting skin conditions.

Emergency and First Aid Procedures Call a physician. 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.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber

Avoid raising dust. Cover with dry-lime or soda ash. Sweep up and place in covered container and hold for disposal.

Ventilate area and wash spill site after material pick-up 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 cool, dry area in well-sealed containers. Protect from moisture and light. Do not expose to high temperatures (e.g. >100 °F). Keep separate from combustible materials and reducing agents.

Other Precautions Containers, even when empty, will retain residue. Always obey hazard warnings and handle empty containers as if they were full. Keep away from food, drink and animal foods.

Section VII Control Measures

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

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

Protective Gloves Chemical resistant gloves. **Eye Protection** Chemical safety goggles.

Other Protective Clothing or Equipment Boots, apron. Discard contaminated shoes.

Work /Hygienic Practices Do NOT wear contact lenses. Wash thoroughly after handling. Wash contaminated clothing promptly. Do not breathe dust. Avoid contact with eyes, skin and clothing. Discard contaminated shoes.

Avoid prolonged or repeated exposure. Keep away from food!

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