



**COLUMBUS CHEMICAL INDUSTRIES INC.**

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**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 Dichromate, 0.250N solution**

**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, Wisconsin 53925	1 (920) 623-2140
	Date Prepared
	03-03-2006
	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 Dichromate* ** ***	7778-50-9	0.5 ug/m <sup>3</sup>	0.01mg/m <sup>3</sup> Cr	0.001 mg/m <sup>3</sup>	2-4%
		ActionLevel		REL 10hr	
		1 ug/m <sup>3</sup> TWA			

\*Subject to SARA Section 313 Reporting Requirements.

\*\* Synonyms: Potassium Bichromate, Bichromate of Potash

\*\*\* Regulated under OSHA 1910.1026

**Section III - Physical/Chemical Characteristics**

Boiling Point	Not available	Specific Gravity (H <sub>2</sub> O = 1)	1.0993
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

Soluble

Appearance and Odor

Light orange, odorless solution

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Nonflammable		Not applicable	Not applicable

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, 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. Prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

May emit toxic fumes under fire conditions. Corrosive Oxidizer. Reacts explosively with Hydrazine and anhydrous

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Incompatibles.
	Stable	X		

**Incompatibility Materials to Avoid**

Reducing agents, combustible materials, organic materials, acids, metals and alkalis.

**Hazardous Decomposition or Byproducts**

Potassium, potassium oxide.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		None
	Will Not Occur	X	

**Section VI Health Hazard Data**

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

**Health Hazards (Acute and Chronic)**

Skin: Corrosive, permeator, sensitizer. Eyes,: severe corrosive, may cause permanent corneal damage. Inhalation:

corrosive, prolonged inhalation may cause asthma. May result in impaired kidney and liver function. Ingestion:

Causes severe irritation, This material is a known CARCINOGEN!.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Known	Known Group 1	Yes, 1910.1026

**Signs and Symptoms of Exposure.**

Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, erythema, blisters, tissue destruction, bloody diarrhea, edema, convulsions, bronchitis, pneumonia, cardiovascular collapse, shock and death.

**Medical Conditions Generally Aggravated by Exposure**

Asthma, emphysema, other respiratory diseases.

**Emergency and First Aid Procedures** EYES/SKIN: Flush immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Remove contact lenses if possible. Call physician if irritation develops. Wash clothing before reuse. INGESTION: DO NOT induce vomiting. Give several cups of water to conscious victim. Call a physician. INHALATION: Move to fresh air. Give oxygen if breathing is difficult, artificial respiration if not breathing.

**Section VII Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled** Evacuate unprotected personnel from area. Ventilate spill area. Wear self-contained breathing apparatus, rubber boots, heavy protective gloves and chemical safety goggles. Absorb on non-combustible absorbant such as sand or clay. Sweep up and place in suitable container. Flush spill area with water.

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

**Precautions to be Taken in Handling and Storing** Keep container tightly closed. Store in corrosion-proof area. Do not get in eyes or on skin or clothing. Do not taste or swallow. Avoid breathing mist. Use only with adequate ventilation. Wash thoroughly after handling. Separate from combustible materials.

**Other Precautions** Do not get in eyes, on clothing. Do not breathe vapor. Use with adequate ventilation. Containers, even when empty, will retain residue. Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures**

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

Ventilation	Local Exhaust	<u>Recommended to control mists.</u>	Special	<u>Eye-wash station nearby.</u>
	Mechanical (General)	<u>Recommended.</u>	Other	<u>Safety shower nearby.</u>

**Protective Gloves** Rubber gloves. **Eye Protection** Safety goggles

**Other Protective Clothing or Equipment** Lab coat or apron and rubber boots. Face-shield recommended.

**Work /Hygienic Practices** Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse.

**Do NOT wear contact lenses. Wear appropriate personal protective equipment. Corrosive Oxidizer! Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. CARCINOGEN!!**

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