



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
COLUMBUS, WISCONSIN 53925-0008
(920) 623-2140
FAX (920) 623-2577

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 Perchlorate

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

08-18-2006

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 Perchlorate

7778-74-7

Not Available

Not Available

Not Available

Section III - Physical/Chemical Characteristics

Boiling Point

Not Available

Specific Gravity (H2O = 1)

Not Available

Vapor Pressure (mm Hg)

Not Available

Melting Point

Decomposes

Vapor Density (AIR = 1)

Not Available

Evaporation Rate (Butyl Acetate = 1)

Not Available

Solubility in Water

24 grams in 100 mL

Appearance and Odor

White crystal or powder.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)

Non Flammable

Flammable Limits

LEL

Not Applicable

UEL

Not Applicable

Extinguishing Media

Use water spray to cool fire-exposed containers.

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

Emits toxic fumes under fire conditions. Contact with combustible material may cause fire. May accelerate combustion.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Combustible materials
	Stable	X		

Incompatibility Materials to Avoid

Strong reducing agents, finely powdered metals, strong acids, organic materials, alcohols (forms explosive mixture).

Hazardous Decomposition or Byproducts

Potassium oxides, hydrogen chloride gas.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not Available
	Will Not Occur	X	

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

Destructive to tissues of the mucous membranes, upper respiratory tract, eyes and skin. May cause allergic skin reaction. Can produce fatal aplastic anemia and other blood disorders including agranulocytosis, leucopenia and thrombocytopenia. Reduces ability of thyroid to absorb iodide and stimulates release of previously absorbed iodide.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Irritation of eyes, skin and mucous membranes including redness, swelling and pain. Coughing, burning sensation, wheezing laryngitis, shortness of breath, headache, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Asthma, emphysema, other respiratory diseases.

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.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate area. Shut off all sources of ignition. Wear dust respirator, rubber boots and heavy rubber gloves. Avoid raising dust. Cover with dry-lime, sand, 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.

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	<u>Recommended.</u>	Special	<u>Eye wash station nearby.</u>
	Mechanical (General)	<u>Preferred.</u>	Other	<u>Safety shower nearby.</u>

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. SENSITIZER! Avoid contact with eyes, skin and clothing. Discard contaminated shoes. SENSITIZER! SEVERE IRRITANT! Avoid prolonged or repeated exposure. Keep away from food!

Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but it is not intended to be all inclusive. The information relates only to the specific Material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the Material, those handling, storing or using the Material should satisfy themselves that they have current information regarding the particular way the Material is handled, stored and used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.