



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 Nitrate

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
P.O. Box 8, N4335 Temkin Rd.
Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

10-05-2005

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Potassium Nitrate*, 7757-79-1, Not established, Not established, Not established.

*EPA TSCA Section 8(B) Chemical Inventory

Section III - Physical/Chemical Characteristics

Table with 4 columns: Boiling Point, Decomposes, Specific Gravity (H2O = 1), Not Available; Vapor Pressure (mm Hg), Not Available, Melting Point, 333 °C (631 °F); Vapor Density (AIR = 1), Not Available, Evaporation Rate (Butyl Acetate = 1), Not Available.

Solubility in Water

Compete

Appearance and Odor

Colorless transparent crystals to white powder

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: non-flammable, N/A, N/A, N/A.

Extinguishing Media

WATER only, no dry chemical, carbon dioxide, or halon

Special Fire Fighting Procedures

Self-contained air supply to protect from oxides of nitrogen. Move container from fire area if possible. Cool water to containers exposed to flames well after fire is out. For massive fire use unmanned hoses. Keep runoff from H2O supply

Unusual Fire and Explosion Hazards

Noxious fumes (oxides of nitrogen) may form. Oxidizers decompose when heated to yield oxygen and other gases which accelerate combustion. Contact with organics/other combustibles may result in explosion/ violent combustion

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Avoid contact with organics,
	Stable	X		

Incompatibility Materials to Avoid

Many Organics and Combustible Materials, reducing agents.

Hazardous Decomposition or Byproducts

Oxides of Nitrogen

Hazardous Polymerization	May Occur		Conditions to Avoid	No known conditions
	Will Not Occur			

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

Skin and eye irritant. Inhalation causes irritation to the upper respiratory tract may cause difficulty in breathing , shortness of breath. Ingestion can cause digestive tract irritation and pain.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
None	No	No	No

Signs and Symptoms of Exposure.

Large Exposure: Dizziness, Abdominal Cramps, Vomiting, Bloody Diarrhea, Weakness, difficulty breathing, ringing in the ears. Small Exposure: Weakness, General Depression, Headache, Menal impairment, sneezing, coughing.

Medical Conditions Generally Aggravated by Exposure n/a

Emergency and First Aid Procedures **INGESTION:** If swallowed, call a physician immediately, **DO NOT INDUCE VOMITING.** Do not leave victim unattended. **EYES:** In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and large amounts of water.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Keep combustibles from spilled material. Do not touch material. For small spills: Take up with sand, earth, or other absorbant material and place into container for disposal. For large spills: dike area far ahead of spill for later disposal. Isolate area and keep unnecessary people away.

Waste Disposal Method Observe all Federal, State, and Local regulations when disposing of this material. Disposal must comply with standards applicable to generators of hazardous waste. 100lbs CERCLA Rep. Quantity.

Precautions to be Taken in Handling and Storing Do NOT get on skin, clothing, or in eyes. Avoid breathing dusts. Keep out of reach of children. store in a cool, dry place. Avoid contact with flammable materials or oxidizable materials.

Other Precautions Avoid contact with combustible materials. Avoid storing with Oxidizable materials.

Section VII Control Measures

Respiratory Protection (Specify Type) Normally, none are needed, use dust mask if conditions warrant.

Ventilation	Local Exhaust	Recommended	Special	Eye wash station
	Mechanical (General)	N/A	Other	Safety Shower

Protective Gloves Appropriate chemical-resistant gloves. Eye Protection Safety glasses

Other Protective Clothing or Equipment Apron or lab coat.

Work /Hygienic Practices Do NOT get on skin, clothing, or in eyes. Avoid breathing, Store in cool, dry place . Avoid contact with flammable materials. Avoid storing with oxidizable materials. Keep out of reach of children.