IMPORTANT
MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. KM 44 M

Product Name COBALT (II) NITRATE, 6-HYDRATE

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300

HAZARD RATING
4-EXTREME
3-SEVERE
2-MODERATE
1-SLIGHT
0-MINIMAL

Health Hazard	2
Flammability	0
Reactivity	3

SECTION I — PRODUCT IDENTIFICATION

Chemical Synonyms	Cobaltous Nitrate, Hexahydrate
Formula	$Co(NO_3)_2 \cdot 6H_2O$
C.A.S. No.	10026-22-9

SECTION II — HAZARDOUS INGREDIENTS

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
Cobalt Nitrate* CAS# 10141-05-6	>99.9	0.01 mg/m³ (Co)	0.02 mg/m³
Nickel Nitrate* CAS# 13138-45-9	0.01	1 mg/m³ (Ni)	0.1 mg/m³

★ chemical subject to the reporting requirements of SARA Title III.

SECTION III — PHYSICAL DATA

Melting Point (°F)	55°C (131°F)	Specific Gravity (H_2O=1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (------- =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Complete		
Appearance & Odor	Red crystals.		

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	(Minimum)°F : N/A	Flammable Limits in Air % by Volume	Lower	Upper
			-------	-------
Extinguisher Media	Foam, water, spray (fog), dry chemical, carbon dioxide.			

Special Firefighting Procedures

In the even of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

N/A

D.O.T.	Nitrates, inorganic, n.o.s. (Cobalt nitrate), 5.1, UN1477, PGII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Threshold Limit Value

0.02 mg.m³ (Co) ACGIH, 0.1 mg/m³ (Ni) ACGRIH

9587.

Effects of Overexposure

May cause eye, skin and upper respiratory tract irritation. Overexposure to cobalt compounds may cause respiratory sensitization and an allergic skin reaction. Cobalt compounds are mildly irritating to the eyes and if swallowed, may cause vomiting, diarrhea and a sensation of hotness. Excessive inhalation and/or ingestion of cobalt salts may affect the kidneys, lungs and thyroid. Nickel nitrate is a possible cancer hazard based on laboratory animal experiments.

Emergency and First Aid Procedures

Call physician. **SKIN:** Remove contaminated clothing. Wash with soap and water. **EYES:** Wash with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **INGESTION:** Give several glasses of water or milk. **DO NOT** induce vomiting. Never give anything by mouth to an unconscious person.

SECTION V — REACTIVITY DATA

Stability	Conditions to Avoid
Stable ☐ Unstable ☐	N/A
Incompatibility (Materials to Avoid)	Avoid contact with strong oxidizing agents (e.g., hydrogen peroxide, bromine and chromic acid). Yields CO_2.
Hazardous Decomposition Products	N/A
Hazardous Polymerization May Occur ☐ Will Not Occur ☐	**Conditions to Avoid** N/A

SECTION VI — SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Eliminate all sources of ignition (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Ventilate area of spill. Collect material into appropriate containers for reuse or disposal. Material may also be flushed with water to a wastewater treatment system. Dispose in closed containers in accordance with local, state and federal regulations.

SECTION VII — SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	NIOSH/MSHA dust mask as a minimum.				
Ventilation	Local Exhaust	X	Special	-------	
	Mechanical (General)	------	Other	-------	
Protective Gloves	Appropriate chemical resistant gloves		Eye Protection	Safety Goggles	
Other Protective Equipment	Chemical resistant rubber or plastic lab apron.				

SECTION IX — SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame. Avoid generating dust.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

N/A

Approved by	Steven C. Quandt	Effective Date	2/2/2005

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.