

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Potassium hexacyanocobaltate (III)

CAS #: 13963-58-1

FORMULA: $K_3Co(CN)_6$

SYNONYM: Potassium cobaltcyanide, Tripotassium hexacyanocobaltate

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13963-58-1	100	0.02mg/m ³ (as Co) no data	no data 5mg/m ³ (as CnN)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Cobalt compounds can cause irritation of eyes, skin, and nasal cavity, lung disease, dermatitis, polycythemia, congestive failure, pain, vomiting, deafness, and enlargement of the thyroid.

PRIMARY ROUTES OF EXPOSURE: Skin and eyes, ingestion and dust inhalation.

EYE CONTACT: Causes irritation, redness, and pain.

SKIN CONTACT: May cause dermatitis. Causes irritation to skin. Symptoms include redness, itching, and pain.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, nausea, respiratory hypersensitivity, asthma.

INGESTION: Causes abdominal pain, nausea, vomiting, flushing of the face and ears, mild hypotension, rash, and ringing in the ears.

CHRONIC HEALTH EFFECTS: Repeated oral administration of cobalt salts may reduce thyroid activity, cause blood disease, and damage kidney, heart and lungs. Prolonged or repeated skin exposure may cause dermatitis.

ACUTE HEALTH EFFECTS: Causes abdominal pain, nausea, vomiting, coughing, and shortness of breath.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: Carbon dioxide, foam, or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit irritating fumes.

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store in a cool, dry area away from heat and direct sunlight.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: yellow xtl.

MOLECULAR WEIGHT: 332.32

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 1.906

SOLUBILITY IN WATER: soluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: strong oxidizing agents.

INCOMPATIBILITY: Mineral acids, oxidizing agents and active metals

DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide, organic fumes, and cobalt oxide.

SECTION 11 Toxicological Information

RTECS DATA: Oral (mouse); LD50: 1529 mg/kg.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N096 for reporting.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/05