

PRMI

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Cobalt (II) thiocyanate hydrate
CAS #: 97126-35-7
FORMULA: Co(SCN)₂.xH₂O

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	97126-35-7	100	0.02mg/m ³ (as Co)	no data

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: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

SECTION 7**Handling and Storage**

HANDLING AND STORAGE: Store in a cool, dry area in a tightly sealed container.

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: brown powder

MOLECULAR WEIGHT: 175.09

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: no data

SOLUBILITY IN WATER: soluble

SECTION 10**Stability and Reactivity**

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: none

INCOMPATIBILITY: Oxidizing agents and halogens
DECOMPOSITION PRODUCTS: Sulfur dioxide, nitrogen oxides and cobalt oxide.

SECTION 11 Toxicological Information

RTECS DATA: No specific information available on this product.
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: Not 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.

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