

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification	
Chemical Name:	Cobalt (II) hydroxide (97%-Co)
Product Number:	93-2741
CAS Registry Number:	21041-93-0
Formula:	Co(OH) ₂
EINECS Number:	244-166-4
Chemical Family:	metal hydroxide
Synonym:	Cobalt (2+) hydroxide

Section 2: Composition and Information on Ingredients				
Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	21041-93-0	100%	0.02mg/m ³ (as Co)	no data

Section 3: Hazards Identification	
Emergency Overview:	May be irritating to skin, eyes and respiratory tract. Limited evidence of a carcinogenic effect.
Primary Routes of Exposure:	Ingestion, inhalation
Eye Contact:	May cause slight to mild irritation of the eyes
Skin Contact:	May cause slight to mild irritation of the skin. May cause sensitization by skin contact.
Inhalation:	May be irritating to the nose, mucous membranes and respiratory tract. May cause sensitization through inhalation.
Ingestion:	Ingestion may cause abdominal pain, nausea, vomiting, flushing of the face and ears, mild hypotension, rash, and ringing in the ears.
Acute Health Affects:	May be irritating to skin, eyes and respiratory tract. Ingestion may cause abdominal pain, nausea, vomiting, coughing, and shortness of breath.
Chronic Health Affects:	Limited evidence of a carcinogenic effect.
NTP:	No
IARC:	Yes
OSHA:	No

SECTION 4: First Aid Measures	
Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the 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 attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: None. Material is non-flammable.
Special Fire Fighting Procedures: No special fire-fighting procedures. The material is non-flammable.
Hazardous Combustion and Decomposition Products: No hazardous combustion or decomposition products.
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 or sodium carbonate and swept up.

SECTION 7: Handling and Storage

Handling and Storage: No special storage conditions.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear appropriate chemical resistant gloves and protective clothing.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator: If 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 1910.134.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: pink pwdr.
Molecular Weight: 92.96
Melting Point: dec.
Boiling Point: no data
Vapor Pressure: not applicable
Specific Gravity: 3.597
Odor: none
Solubility in Water: Insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: none
Incompatibility: none
Decomposition Products: none

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SECTION 11: Toxicological Information

RTECS Data: No specific information available on this product.
Carcinogenic Effects: Possible carcinogen (as Co)
Mutagenic Effects: no data
Tetratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: Avoid release to the environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal Considerations

Disposal: This material and its container must be disposed of as hazardous waste according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.
SARA (Title 313): Title compound: see category N096 for reporting.
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

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