Material Safety Data Sheet



COBALT NITRATE, 6-HYDRATE, CRYSTAL

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Carolina Biological Supply Company

UHRULINA www.carolina.com

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

Section 1 - Product Description

Product Name: Cobalt Nitrate

Product Code(s): 85-4990, 85-4992, 84-0910

Size: 100 g, 500 g

Chemical Name: Cobalt Compounds

CAS Number: 10026-22-9 **Formula:** Co(NO3)2 * 6H2O

Synonyms: Nitric Acid Cobalt (II), Hexahydrate; cobalt dinitrate Hexahydrate; Cobalt nitrate hexahydrate

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful by inhalation and if swallowed. Product is a strong oxidizer. Contact with combustible

material may cause fire.

Potential Health Effects:

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Cobalt Nitrate (10026-22-9) 90-100%

TLV units: ACGIH-TLV 0.02 mg(Co)/m3 (TWA) **PEL units:** OSHA-PEL 0.1 mg(Co)/m3 (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Product Name: COBALT NITRATE, 6-HYDRATE, CRYSTAL Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Contact with combustible materials, flammable materials, or powdered metals can

cause fire or explosion. Can react violently with reducing agents.

Product is a strong oxidizer.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Keep away from ... (incompatible materials to be indicated by the manufacturer).

Keep away from combustible material.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes **Mechanical(General):** Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight:291.04Melting Point:56 °CBoiling Point:DecomposesVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):1.54Percent Volatile by Volume:0%Evaporation Rate (BuAc=1):N/A

Solubility in Water: Soluble Appearance and Odor: Odorless red crystals.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Reducing agents, Contact with combustible material may cause fire.

Hazardous Decomposition Products: NOx, **Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Product Name: COBALT NITRATE, 6-HYDRATE, CRYSTAL Page 2 of 3

Toxicity Data: orl-rat LD50 691 mg/kg

Effects of Overexposure: Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Reproductive data cited. Tumorigenic data cited.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: D001

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1477, Nitrates, Inorganic, n.o.s. (Cobalt Nitrate, 6-Hydrate), 5.1, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

Cobalt Nitrate - No Cobalt Nitrate - Cobalt compound

CERCLA Section 103 RO(lb.): Cobalt nitrate - No

RCRA Section 261.33: Cobalt nitrate - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

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