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Cobalt (Ous) Nitrate CAS No 10026-22-9

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Cobalt (Ous) Nitrate
	CAS-No.	:	10026-22-9
1.2	Relevant identified uses o	fth	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the safety data sheet Company : Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA		
	Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com
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1.4 Emergency telephone number Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 4), H302 Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Carcinogenicity, Inhalation (Category 1B), H350i Reproductive toxicity (Category 1B), H360F Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008
Pictogram



Signal word	Danger			
Hazard statement(s) H272 H302 H317 H334 H341	May intensify fire; oxidizer. Harmful if swallowed. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects.			
H350i	May cause cancer by inhalation.			
H360F	May damage fertility.			
H410	Very toxic to aquatic life with long lasting effects.			
Precautionary statement(s)				
P201	Obtain special instructions before use.			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.			
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.			
P284	Wear respiratory protection.			
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P308 + P313	IF exposed or concerned: Get medical advice/ attention.			
Supplemental Hazard Statements	none			

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Cobaltous nitrate
Formula	: CoN2O6 - 6H2O
Molecular weight	: 291,03 g/mol
CAS-No.	: 10026-22-9

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component

Classification

Concentration

Cobaltous nitrate, hexahydrate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CAS-No.	10026-22-9	Ox. Sol. 2; Acute Tox. 4;	<= 100 %
		Resp. Sens. 1; Skin Sens. 1;	
		Muta. 2; Carc. 1B; Repr. 1B;	
		Aquatic Acute 1; Aquatic	
		Chronic 1; H272, H302, H334,	,
		H317, H341, H350i, H360F,	
		H400, H410	
		Concentration limits:	
		>= 0,01 %: Carc. 1B, H350i;	M-
		Factor - Aquatic Acute: 10	-
		Aquatic Chronic: 10	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Cobalt/cobalt oxides

5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

- Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition
- No smoking.Keep away from heat and sources of ignition.

For precautions see section 2.2.

- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing hazardous materials
- 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: red
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	4,0 at 100 g/l at 20 °C
e)	Melting point/freezing point	Melting point/range: 55 °C - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	Not applicable
h)	Evaporation rate	No data available

i) Flammability (solid, gas) No data available

	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	No data available
	I)	Vapour density	No data available
	m)	Relative density	1,88 g/cm3
	n)	Water solubility	soluble
	o)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	No data available
	t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.
9.2	Oth	ner safety information	
		Bulk density	8.000 kg/m3
SECTION 10: Stability and reactivity			

10.1 Reactivity No data available

- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Heat Exposure to moisture
- 10.5 Incompatible materials Organic materials, Reducing agents
- 10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - Rat - 691 mg/kg

LD50 Oral - Rat - 434 mg/kg Remarks: anhydrous

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity In vitro tests showed mutagenic effects No data available

Carcinogenicity

Carcinogenicity - Rabbit Tumorigenic:Tumors at site or application.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Cobaltous nitrate, hexahydrate)

2B - Group 2B: Possibly carcinogenic to humans (Cobaltous nitrate, hexahydrate)

Reproductive toxicity No data available

Presumed human reproductive toxicant

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information RTECS: QU7355500

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Very toxic to aquatic life.

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number ADR/RID: 1477

14.2 UN proper shipping name

ADR/RID:NITRATES, INORGANIC, N.O.S. (Cobaltous nitrate, hexahydrate)IMDG:NITRATES, INORGANIC, N.O.S. (Cobaltous nitrate, hexahydrate)IATA:Nitrates, inorganic, n.o.s.

14.3	Transport hazard class(es) ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: yes	IMDG Marine pollutant: yes	IATA: no
14.6	Special precautions for user No data available		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations and/or restrictions on use

Cobaltous nitrate, hexahydrateCAS-No.: 10026-22-9REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).Carcinogenic (article 57a)ED/95/2010Cobaltous nitrate, hexahydrateCAS-No.: 10026-22-9

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Carcinogens: category 1B Restricted to professional users.

See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.