

MATERIAL SAFETY DATA SHEET

COBALT (II) CARBONATE (Basic) (Cobaltous Carbonate) Extra Pure MSDS CAS: 513-79-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: COBALT (II) CARBONATE

CAS#: 513-79-1

Synonym: Cobaltous Carbonate; Carbonic Acid, Cobalt Salt

Chemical Name: Cobalt Carbonate

Chemical Formula: CoCO₃

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight	Hazardous
Cobalt Carbonate	513-79-1	100	Yes

Section 3: Hazards Identification

Potential Health Effects:

Inhalation:

Causes irritation to the respiratory tract, symptoms may include coughing, shortness of breath, and nausea. Respiratory hypersensitivity, asthma may appear. Inhalation of cobalt dust and fumes is associated with an increased incidence of lung disease.

Ingestion:

Causes abdominal pain, nausea, vomiting, flushing of the face and ears, mild hypotension, rash, and ringing in the ears. May have cumulative toxic action where elimination cannot keep pace with absorption. Large amounts depress erythrocyte production.

Skin Contact:

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

Eye Contact:

Causes irritation, redness, and pain.

Chronic Exposure:

Repeated oral administration may produce goiter and reduced thyroid activity. Prolonged or repeated skin exposure may cause dermatitis. Chronic exposure associated with kidney, heart and lung damage.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance. Persons with allergies or sensitivity to cobalt may also be more susceptible to the effects of the substance.

Section 4: First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Section 4: First Aid Measures (Continued)

Skin Contact:

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5: Fire and Explosion Data

Fire:

Contact with strong oxidizers may cause fire.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Section 7: Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Wash hands before eating and do not eat, drink, or smoke in workplace. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Cobalt Compound:

-OSHA Permissible Exposure Limit (PEL):

0.1 mg/m³ (TWA) Cobalt metal dust and fume as Co

-ACGIH Threshold Limit

Value (TLV): inorganic cobalt compounds: 0.02 mg/m³ (TWA) As Co,

A3: Animal carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half-face high efficiency particulate respirator (NIOSH type N100 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece high efficiency particulate respirator (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For Emergencies or instances where the exposure levels are not known, Use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Appearance	: Red crystalline powder.
Odor	: No information found.
Molecular Weight	: 118.94 g/mole.
Solubility	: Negligible.
Specific Gravity	: 4.13
pH	: No information found.
% Volatiles by volume @ 21C (70F):	0
Boiling Point	: No information found.
Melting Point	: No information found.
Vapor Density (Air=1)	: No information found.
Vapor Pressure (mm Hg)	: No information found.
Evaporation Rate (BuAc=1)	: No information found.

Section 10: Stability and Reactivity Data

Stability:

Stable under ordinary conditions of use and storage. May air-oxidize.

Hazardous Decomposition Products:

Burning may produce carbon monoxide, carbon dioxide, phosphorous oxides and benzoic acid.

Hazardous Polymerization: Will not occur.

Incompatibilities:

Strong oxidizers, tart-butyl hydro peroxide.

Conditions to Avoid: Air, incompatibles.

Section 11: Toxicological Information

Oral Rat LD50: 640 mg/kg. Investigated as a tumorigenic.

-----\Cancer Lists\-----
---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Cobalt Carbonate (513-79-1)	No	No	2B

Section 12: Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Land transport (ADR-RID)

General information: Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Section 14: Transport Information (Continued)

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

Section 15: Other Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Cobalt Carbonate (513-79-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	<u>--Canada--</u>	Korea	DSL	NDSL	Phil.
Cobalt Carbonate (513-79-1)		Yes	Yes	No	No

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	<u>SARA 302</u>	<u>SARA 313</u>	Chemical Catg.
Cobalt Carbonate (513-79-1)	No	Yes	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	<u>-RCRA-</u>	<u>-TSCA-</u>	261.33	8(d)
Cobalt Carbonate (513-79-1)	No		No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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