

# Material Safety Data Sheet



## Cobalt Carbonate 46%

### 1. Product and company identification

**Common name** : Cobalt Carbonate 46%

**Material uses** : Included in animal feeds.

**Supplier/Manufacturer** : Pestell Minerals & Ingredients  
 141 Hamilton Road  
 New Hamburg, Ontario  
 Canada, N3A 2H1  
 Tel : (519) 662-2877  
 Fax : (519) 662-6242  
 E-mail: pestellgroup@pestell.com

**In case of emergency** : CANUTEC (613) 996-6666

**MSDS authored by:** : Kemika XXI Inc. + 1-450-435-7475

10/15/2009

### 2. Hazards identification

**Physical state** : Solid.

**Odor** : Odorless.

**Color** : Purple. / Pink.

**Hazard status** : This material is classified hazardous under OSHA regulations in the United States and the WHMIS Controlled Product Regulation in Canada.

**Emergency overview** : WARNING !  
 MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.  
 MAY BE HARMFUL IF SWALLOWED.  
 Do not ingest. Avoid contact with skin and clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** : No known significant effects or critical hazards.

**Skin** : May cause sensitization by skin contact.

**Inhalation** : May cause sensitization by inhalation.

**Ingestion** : May be harmful if swallowed.

**Potential chronic health effects** : Carcinogenic effects Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC [Cobalt carbonate].  
 Mutagenic effects Not available.  
 Teratogenic effects Not available.

See toxicological information (section 11)

### 3. Composition/information on ingredients

#### United States

Name	CAS number	%
Cobalt carbonate	513-79-1	>46

#### Canada

Name	CAS number	%
Cobalt carbonate	513-79-1	>46



## 4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

## 5 . Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## 7 . Handling and storage

- Handling** : Do not ingest. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8 . Exposure controls/personal protection

### United States

**Product name**  
Cobalt carbonate

**Exposure limits**  
**ACGIH TLV (United States, 1/2005).**  
TWA: 0.02 mg/m<sup>3</sup> 8 hour(s). Form: Inorganic

### Canada

**Product name**  
Cobalt carbonate

**Exposure limits**  
**ACGIH TLV (United States, 1/2005).**  
TWA: 0.02 mg/m<sup>3</sup> 8 hour(s). Form: Inorganic

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection

- Eyes** : Safety glasses.
- Skin** : Lab coat.
- Respiratory** : Vapor respirator.
- Hands** : Natural rubber (latex).



**HMIS Code/Personal protective equipment** : G

**Personal protection in case of a large spill** : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

## 9 . Physical and chemical properties

- Physical state** : Solid.
- Color** : Purple. / Pink.
- Odor** : Odorless.
- Relative density** : 4.13 (Water = 1)
- Solubility** : Insoluble in cold water, hot water.

## 10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing materials.
- Hazardous polymerization** : Will not occur.
- Conditions of reactivity** : Not available.

## 11 . Toxicological information

### Toxicity data

Product/ingredient name	Test	Result	Route	Species
Cobalt carbonate	LD50	640 mg/kg	Oral	Rat

### Acute Effects

- Eyes** : No known significant effects or critical hazards.
- Skin** : May cause sensitization by skin contact.
- Inhalation** : May cause sensitization by inhalation.
- Ingestion** : May be harmful if swallowed.
- Potential chronic health effects** : Carcinogenic effects Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC [Cobalt carbonate].  
Mutagenic effects Not available.  
Teratogenic effects: Not available.

## 12 . Ecological information

**Environmental precautions** : No known significant effects or critical hazards.

**Products of degradation** : These products are carbon oxides. Some metallic oxides.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

## 14 . Transport information

### Regulatory information

**UN/ IMDG/IATA DOT/TDG** : Not regulated.

## 15 . Regulatory information

### United States

**HCS Classification** : Sensitizing material

**U.S. Federal regulations** : TSCA 6 proposed risk management: Lead  
TSCA 8(b) inventory: All components listed.  
TSCA 12(b) annual export notification: Lead

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: Nickel; Cadmium; Arsenic; Lead

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

### SARA 313

	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>
<b>Form R - Reporting requirements</b>	: Cobalt carbonate	513-79-1	>46

<b>Supplier notification</b>	: Cobalt carbonate	513-79-1	>46
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SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State regulations** : Pennsylvania RTK: Cobalt carbonate: (environmental hazard, generic environmental hazard); Nickel: (special hazard, environmental hazard, generic environmental hazard); Cadmium: (special hazard, environmental hazard, generic environmental hazard); Arsenic: (environmental hazard, generic environmental hazard); Lead: (environmental hazard, generic environmental hazard)  
Massachusetts RTK: Nickel; Cadmium; Arsenic; Lead  
New Jersey: Cobalt carbonate; Nickel; Cadmium; Arsenic; Lead

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Nickel	Yes.	No.	No.	No.
Cadmium	Yes.	Yes.	0.05 µg/day (inhalation)	Yes.
Arsenic	Yes.	No.	0.06 µg/day (inhalation)	No.
Lead	Yes.	Yes.	15 µg/day (ingestion)	Yes.

**Canada**

**WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic).  
Class D-2B: Material causing other toxic effects (Toxic).



DSL : All components listed.

This product has been classified in accordance with the hazard criteria of the Canadian CPR and the United States OSHA. This MSDS contains all the information required by the CPR and OSHA, the American National Standard Institute (ANSI) Z400.1.

**International lists** : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 16 . Other information

**Label requirements (U.S.A.)** : MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.  
MAY BE HARMFUL IF SWALLOWED.

**Hazardous Material Information System (U.S.A.)** :

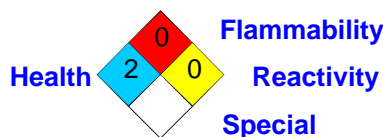
HMIS RATING	
Health	2
Fire hazard	0
Physical Hazard	0
Personal protection	G

**HAZARD RATINGS**

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

See section 8 for more detailed information on personal protection.

**National Fire Protection Association (U.S.A.)** :



**References** : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

**Date of issue** : 10/15/2006

**Version** : 1

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.