



# MATERIAL DATA SAFETY SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cobalt carbonate  
PRODUCT NUMBER: 1256  
CHEMICAL NAME: Cobalt carbonate  
DATE PREPARED: 05/23/2000

MANUFACTURER:  
The Shepherd Chemical Company  
4900 Beech Street  
Cincinnati, Ohio 45212  
(513)-731-1110 (voice), (513)-731-1532 (fax)

EMERGENCY TELEPHONE NO. 1-800-424-9300 CHEMTREC

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL INGREDIENT</u>	<u>C.A.S. NUMBER</u>	<u>% BY WEIGHT</u>	<u>% METAL</u>
Nickel carbonate	3333-67-3	0.3*	.15 Ni*
Cobalt carbonate hydroxide	12602-23-2	99.9*	46 Co

\* Upper bound limit

## SECTION 3 - HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

APPEARANCE: Reddish-purple powder      ODOR: No odor

CAUTION! AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION.

### POTENTIAL HEALTH EFFECTS, TARGET ORGAN EFFECTS (ACUTE AND CHRONIC)

This product may cause eye, skin and upper respiratory tract irritation. Overexposure to cobalt compounds may cause respiratory sensitization and an allergic skin rash. They are mildly irritating to the eyes and if swallowed, may cause vomiting and diarrhea and a sensation of hotness. IARC states that cobalt compounds are possibly carcinogenic to humans - Group 2B (Monograph 52).

CARCINOGENICITY: IARC states that cobalt compounds are possibly carcinogenic to humans and nickel compounds are carcinogenic to humans.

## SECTION 4 - FIRST AID MEASURES

If inhaled or ingested, call a physician. In case of contact, flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT/METHOD: N/A

FLAMMABLE LIMITS: LEL: N/A      UEL: N/A

EXTINGUISHING MEDIA: Water

SPECIAL FIREFIGHTING PROCEDURES: Use Self-Contained Breathing-Apparatus.

FIRE AND EXPLOSION HAZARD:

N/A

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Ventilate area of spill. Avoid generating dust. Collect material into appropriate containers for reuse or disposal. Material may also be flushed with water to a wastewater treatment system.

#### SECTION 7- HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. Store in closed containers. Avoid generating dust.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators if OSHA PEL is exceeded.

SKIN PROTECTION: Use impervious glove and body-covering clothing.

EYE PROTECTION: Use side-shielded safety glasses or goggles.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation.

EXPOSURE GUIDELINES:

<u>CHEMICAL INGREDIENT</u>	<u>OSHA PEL (mg/M3)</u>	<u>ACGIH TLV (mg/M3)</u>
Cobalt carbonate hydroxide	0.1 Co	0.02 Co
Nickel carbonate	1.0 Ni	0.2 Ni

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Reddish-purple powder

ODOR: No odor

BOILING POINT: N/A

VAPOR PRESSURE (mm HG): N/A

VAPOR DENSITY (Air = 1): N/A

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY (water=1): 4.13

FREEZING POINT: N/A

pH: N/A

EVAPORATION RATE: N/A

#### SECTION 10 - STABILITY AND REACTIVITY

STABILITY: This product is stable. Hazardous polymerization will not occur.

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION BY PRODUCTS:

N/A

#### SECTION 11- TOXICOLOGICAL INFORMATION

oral rat LD50: 640 mg/kg

#### SECTION 12- ECOLOGICAL INFORMATION

Not available

## **SECTION 13 -DISPOSAL CONSIDERATION**

Dispose in closed containers, at an approved landfill, in accordance with local, state and federal regulations. Material may also be flushed with water to a wastewater treatment system.

## **SECTION 14 - TRANSPORT INFORMATION**

This product is not regulated for transportation.

## **SECTION 15 -REGULATORY INFORMATION**

### **OSHA HAZARD COMMUNICATION STANDARD:**

Hazardous due to target organ effects (See Section 3)

### **CERCLA/SUPERFUND:**

N/A

### **SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

Section 311/312 Hazard Categories: Acute and Chronic: Health Hazard

Section 313- This product contains the following substances subject to 313 reporting:

Nickel compound - 0.3%

Cobalt compound - 99.9%

### **TOXIC SUBSTANCES CONTROL ACT (TSCA):**

All components of this product are on the TSCA Inventory.

### **INTERNATIONAL REGULATIONS:**

Registered in Europe (EINECS), Canada (DSL), and Japan (MITI)

## **SECTION 16 - OTHER INFORMATION**

### **REFERENCES:**

Occupational Health Guidelines for Chemical Hazards, JAN. 1981, NIOSH/OSHA

Occupational Diseases - A Guide to their Recognition, JUNE 1977, NIOSH

Criteria for Controlling Occupational Exposure to Cobalt, OCT. 1981, NIOSH

### **HMIS RATING:**

Health - 2\*

Flammability - 0

Reactivity - 0

Personal Protection - E

### **DISCLAIMER:**

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