

## SECTION I

CERAMIC COLOR & CHEMICAL MFG. CO.  
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DATE: 3-10-05

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME)	OSHA PEL (mg/M <sup>3</sup> )	ACGIH TLV (mg/M <sup>3</sup> )	C.A.S. No.	%	SARA 313
Cobalt carbonate hydroxide (as Co)	0.1	0.02	12602-23-2	46	X
Nickel Carbonate (as Ni)	1.0	1.0	3333-67-3	*	X

\*0.05% - 0.15%

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	N/A	SPECIFIC GRAVITY (H <sub>2</sub> O=1):	4.13
VAPOR PRESSURE (mmHG):	N/A	MELTING POINT:	Not Available
VAPOR DENSITY (AIR=1):	N/A	EVAPORATION RATE:	
SOLUBILITY IN WATER:	negligible	(BUTYL ACETATE = 1):	N/A
APPEARANCE AND ODOR:	Reddish-purple powder, no odor		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD):	N/A	SPECIFIC GRAVITY (H <sub>2</sub> O=1):	4.13
VAPOR PRESSURE (mmHG):	N/A	MELTING POINT:	Not available
VAPOR DENSITY (AIR=1):	N/A	EVAPORATION RATE	
SOLUBILITY IN WATER:	negligible	(BUTYL ACETATE=1):	N/A
APPEARANCE AND ODOR:	Reddish-purple powder, no odor		

## SECTION V - REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE: CONDITIONS TO AVOID: N/A  
INCOMPATIBILITY (MATERIALS TO AVOID): Yields CO<sub>2</sub> with strong acids  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/A

HAZARDOUS POLYMERIZATION: MAY OCCUR  
CONDITIONS TO AVOID: N/A

## SECTION VI - HEALTH HAZARD DATA

PRODUCT: Cobalt Carbonate  
TOXICITY: oral-rat LD50: 640mg/kg  
ROUTE(S) OF ENTRY: INHALATION: X SKIN: X INGESTION  
CARCINOGENICITY: NTP: NO IARC MONOGRAPHS: X OSHA REGULATED: NO  
HEALTH HAZARDS (ACUTE & CHRONIC) / SIGNS AND SYMPTOMS OF EXPOSURE:

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, diarrhea and a sensation of hotness. Excessive inhalation and/or ingestion of cobalt salts may affect the kidneys, lungs and thyroid. IARC states that cobalt compounds are possibly carcinogenic to humans - Group 2B (Monograph 52). IARC considers nickel compounds to be carcinogenic to humans (Monograph 49).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory system conditions and skin diseases

EMERGENCY AND FIRST AID PROCEDURES:

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Wash skin with soap and water.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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

**WASTE DISPOSAL METHOD:**

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.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Keep in closed containers. Avoid generating dust.

**OTHER PRECAUTIONS:**

Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling.

**SECTION VIII – CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved for dust.

**VENTILATION:** Sufficient to maintain OSHA PEL.

**PROTECTIVE GLOVES:** Impervious

**EYE PROTECTION:** Side shield safety glasses or goggles

**OTHER PROTECTIVE CLOTHING AND EQUIPMENT:** Safety showers and eyewashes

**WORK/HYGIENIC PRACTICES:** Good housekeeping procedures should be followed to minimize dust.

**SECTION IX – 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

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