

MATERIAL SAFETY DATA SHEET

SECTION I

CHEMICAL NAME: Cobalt Carbonate
 PRODUCT NAME: Cobalt Carbonate
 MANUFACTURERS NAME: Ceramic Color & Chemical Mfg. Co.
 ADDRESS: 13th Street & 11th Avenue, New Brighton, PA 15066
 EMERGENCY PHONE NO: (412) 846-4000 DATE PREPARED: May, 1995

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME)	OSHA PEL (mg/M ³)	ACGIH TLV (mg/M ³)	C.A.S. NO.	% SARA 313
Cobalt Carbonate (as Co)	0.1	0.05	513-79-1	46 x

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
 VAPOR PRESSURE (MM HG): N/A
 VAPOR DENSITY (AIR=1): N/A
 SOLUBILITY IN WATER: negligible
 APPEARANCE AND ODOR: Reddish-purple powder, no odor

SPECIFIC GRAVITY (H₂O=1): 4.13
 MELTING POINT: Not Available
 EVAPORATION RATE (BUTYL ACETATE=1): N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): N/A
 EXTINGUISHING MEDIA: Water
 SPECIAL FIRE FIGHTING PROCEDURES:
 UNUSUAL FIRE AND EXPLOSION HAZARDS:

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

SECTION V - REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE:
 INCOMPATIBILITY (MATERIAL TO AVOID): With strong acids, yields CO₂.
 HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/A

CONDITIONS TO AVOID: N/A

HAZARDOUS POLYMERIZATION: will not occur
 CONDITIONS TO AVOID: N/A

SECTION VI - HEALTH HAZARD DATA

TOXICITY: oral-rat LD50: 640 mg/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 heat.
 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 3B (Monograph 52).

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 waste water 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 waste water 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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