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MATERIAL SAFETY DATA SHEET

SECTION I

CHEMICAL NAME: Cobalt carbonate
 PRODUCT NAME: Cobalt carbonate
 MANUFACTURERS NAME: The Shepherd Chemical Company
 ADDRESS: 4900 Beech Street, Cincinnati, Ohio 45212
 EMERGENCY TELEPHONE NO.: (513) 731-1110 DATE PREPARED: December 1993

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
Nickel carbonate (as Ni)	1.0	1.0	3333-67-3	10.05	X

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A SPECIFIC GRAVITY (H₂O=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 FLAMMABLE LIMITS: LEL N/A UEL N/A
 EXTINGUISHING MEDIA: Water
 SPECIAL FIREFIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V - REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE: CONDITIONS TO AVOID: N/A
 INCOMPATIBILITY (MATERIALS TO AVOID): Yields CO₂ with strong acids.
 HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/A
 HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X
 CONDITIONS TO AVOID: N/A

THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

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SECTION VI - HEALTH HAZARD DATA

PRODUCT: Cobalt carbonate
TOXICITY: orl-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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