SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	Cobalt Carbonate
SYNONYMS:	Cobaltous Carbonate
PRODUCT USE:	Various uses
CHEMICAL SHIPPING NAME/CLASS:	Non-Regulated Material
U.N. NUMBER:	None
MANUFACTURER'S NAME:	Various Manufacturers
DISTRIBUTOR'S NAME:	**Hunter Chemical LLC**
ADDRESS:	220 Commerce Drive, Suite 405, Fort Washington, PA 19034
EMERGENCY PHONE:	(800) 424-9300 (CHEMTREC)
BUSINESS PHONE:	(215) 461-1900
DATE OF PREPARATION:	May 22, 2013
DATE OF REVISION:	June 27, 2013
DATE OF REVIEW:	June 27, 2013

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Danger!

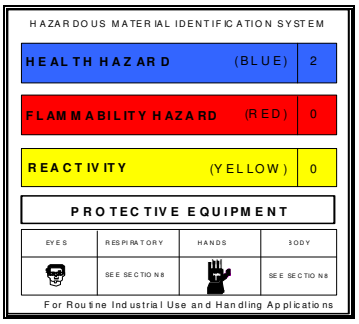
Product Description: This product is a red crystalline (powder) solid with a slight odor.
Health Hazards: Causes irritation and possible burns by all routes of exposure. Possible cancer hazard. May cause allergic respiratory and skin reaction. May be harmful if swallowed. May cause lung damage. May cause adverse reproductive effects.
Flammability Hazards: Non-Flammable product.
Reactivity Hazards: This product is not reactive.
Environmental Hazards: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Emergency Recommendations: Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

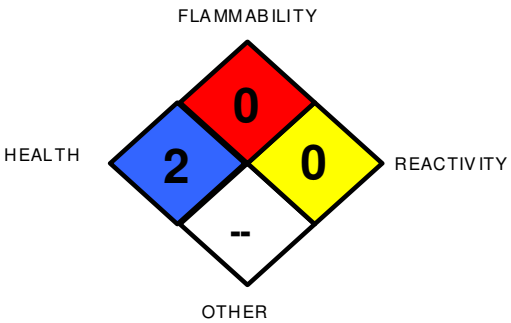
EU LABELING AND CLASSIFICATION: This product meets the definition of a hazardous substance or preparation according to EU Regulations (EC) No 1272/2008.
INDEX NUMBER :
EC# 208-169-4 Annex II Index# 027-010-00-8
Substances not listed either individually or in group entries must be self classified.

COMPONENT(S) DETERMINING HAZARD:
Cobalt Carbonate

GHS CLASSIFICATIONS:
Carcinogenicity Category 1B
Germ Cell Mutagenicity Category 2
Reproductive Toxicity Category 1B
Respiratory Sensitizer Category 1
Skin Sensitizer Category 1
Acute Aquatic Toxicity Category 1
Chronic Aquatic Toxicity Category 1

SIGNAL WORD : Danger





Scale: **0** = Minimal **1** = Slight **2** = Moderate
3 = Serious **4** = Severe * = Chronic hazard

HAZARD STATEMENT:

H350	May cause cancer
H341	Suspected of causing genetic effects
H360	May damage fertility or the unborn child
H334	May cause allergy or breathing difficulties if inhaled
H317	May cause a allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

PREVENTION STATEMENT :

P103	Read label before use (applies only where the substance is available to the general public)
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapor/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment. This statement does not apply where this is the intended use
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required

RESPONSE STATEMENT:

P321	Specific treatment is advised – see first aid instructions
P363	Wash contaminated clothing before reuse
P302 +P352	IF ON SKIN: Wash with plenty of soap and water
P308 + P313	IF exposed or concerned: Get medical advice/attention
P333 + P313	IF skin irritation or rash occurs: Get medical advice/attention

HEALTH EFFECTS OR RISKS FROM EXPOSURE:

ACUTE: Acute exposure to this product can result in irritation of the eyes and skin. Contact with skin may cause sensitization. Ingestion may cause digestive tract irritation. Inhalation may cause delayed lung injury. May cause asthmatic attacks due to allergic sensitization of the respiratory tract with asthma like conditions and shortness of breath.

CHRONIC: Repeated oral administration may produce goiter and reduced thyroid activity. Prolonged or repeated skin exposure may cause dermatitis. Chronic exposure associated with kidney, heart and lung damage Cobalt compounds may cause cancer based upon animal studies. Adverse reproductive effects have been reported in animals.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification	Risk Phrases
Cobalt Carbonate	100%	513-79-1	208-169-4	Carc. Cat 2, Muta Cat 3, Repr Cat 2 [T] Toxic, [N] Dangerous to the Environment	R49, R68, R60, R22, R42/43, R50/53
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					None

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*.

4. FIRST-AID MEASURES

SKIN EXPOSURE: If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.

EYE EXPOSURE: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek immediate medical attention.

INHALATION: If dusts generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing distress continues.

INGESTION: Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.
If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders or eye problems or impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance. Persons with allergies or sensitivity to cobalt may also be more susceptible to the effects of the substance.
RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA
FIRE EXTINGUISHING MATERIALS: Use fire extinguishing methods below:

Water Spray: Yes	Carbon Dioxide: Yes
Foam: Yes	Dry Chemical: Yes
Halon: Yes	Other: Any "C" Class

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is a non-combustible substance that itself does not burn, but may decompose upon heating to produce irritating and/or toxic fumes.
Explosion Sensitivity to Mechanical Impact: No
Explosion Sensitivity to Static Discharge: No
SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Proper protective equipment should be used. Stop the flow of material, if this can be done safety. Contain discharged material. For spills of solid material, sweep-up or vacuum spilled solid, minimizing the generation of dust. Place in a proper container for reclamation or disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.
STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Store containers in a cool, dry location away from incompatible materials. . Keep container tightly closed when not in use. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Cobalt Carbonate	513-79-1	0.02 mg/m³ (Listed under cobalt, inorganic compounds)	0.1 mg/m³ (Listed under cobalt, inorganic compounds)

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use a chemical fume hood or local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE (Physical State) and COLOR: Red crystalline (powder) solid
ODOR: Slight odor
ODOR THRESHOLD: Not Available
pH: Not Available
MELTING/FREEZING POINT: 140ºC
BOILING POINT: Not Available
FLASH POINT: Not Applicable
EVAPORATION RATE (n-BuAc=1): Not Applicable
FLAMMABILITY (SOILD, GAS): Not Available
UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS: Not Available
VAPOR PRESSURE (mm Hg @ 20℃ (68°F): Not Applicable
VAPOR DENSITY: Not Applicable
RELATIVE DENSITY: Not Available
SPECIFIC GRAVITY: 4.13
SOLUBILITY IN WATER: Eligible
PARTITION COEFFICENT (n-octanol/water): Not Available
AUTO-IGNITION TEMPERATURE: Not Available
DECOMPOSITION TEMPERATURE: Not Available
VISCOSITY: Not Applicable

10. STABILITY and REACTIVITY

STABILITY: Stable under conditions of normal storage and use. May air-oxidize.
HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon monoxide, carbon, dioxide, phosphorous oxides and benzoic acid.
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers, tert-butyl hydro peroxide.
POSSIBILITY OF HAZARDOUS REACTIONS: Has not been reported.
CONDITIONS TO AVOID: Dust generation, moisture, excess heat.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:
Cobalt Carbonate CAS# 513-79-1
Oral LD 50: 640 mg/kg (Rat)

SUSPECTED CANCER AGENT: Ingredients within this product are found on the following lists: IARC, or ACGIH and therefore are considered to be, or suspected to be, cancer-causing agents by these agencies.
ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.(Listed as "Cobalt, inorganic compounds")
IARC: Group 2B carcinogen
IRRITANCY OF PRODUCT: This product can be irritating to the skin, eyes, and respiratory system.
SENSITIZATION TO THE PRODUCT: This product may cause allergic skin and respiratory reactions.
REPRODUCTIVE TOXICITY INFORMATION: Adverse reproductive effects have occurred in experimental animals.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No information available

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This product is harmful to aquatic life in very low concentrations. This product will be toxic to fish and marine organisms when applied to streams, ponds, rivers or lakes.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

PROPER SHIPPING NAME:	Non-regulated Material
HAZARD CLASS NUMBER and DESCRIPTION:	None
UN IDENTIFICATION NUMBER:	None
PACKING GROUP:	None
DOT LABEL(S) REQUIRED:	None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.
SARA 313 Reporting. This product contains Cobalt Compounds N096 and is subject to reporting.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted form listing.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients within this product are on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Class D2A Materials causing other toxic effects.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION: This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

Carc. Cat 2, Muta Cat 3, Repr Cat 2 [T] Toxic, [N] Dangerous to the Environment

EU CLASSIFICATION: Carc. Cat 2; Muta Cat 3 ; Repr Cat 2 ; [T] Toxic; [N] Dangerous for the Environment

EU RISK PHRASES: R49: May cause cancer by inhalation; R68: Possible risk of irreversible effects; R60: May impair fertility; R22: Harmful if swallowed; R42/43: May cause sensitization by inhalation and skin contact; R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

EU SAFETY PHRASES: S53: Avoid exposure-obtain instructions before use; S45: In case of accident or if you feel unwell, seek medical advice immediately; S60: This material and its container must be disposed of as hazardous waste; S61: Avoid release to the environment.

AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed
Australian Inventory of Chemical Substances (AICS): Listed
Korean Existing Chemicals List (ECL): Listed
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed
Swiss Giftliste List of Toxic Substances: Listed
U.S. TSCA: Listed

16. OTHER INFORMATION

PREPARED BY: Paul Eigbrett – (**MSDS Authoring PLUS)**
DATE OF PRINTING: July 24, 2013

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Hunter Chemical LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Hunter Chemical LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF MSDS SHEET