

# MATERIAL SAFETY DATA SHEET

## SECTION 1

**CHEMICAL NAME:** Cobalt as  $\text{CoSO}_4$  and compounds listed below

**PRODUCT NAME:** PHYTO-PLUS Cobalt 3% (WA)

**MANUFACTURERS NAME:** BAICOR L.C.

**% ACTIVITY:** 3.0% Co, 1.0% S.

**ADDRESS:** 1895 North 600 West, Logan Utah 84321

**EMERGENCY TELEPHONE NO.:** (435) 752-2475

## SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

### HAZARDOUS COMPONENTS

(SPECIFIC CHEMICAL IDENTITY; Mixture)	OSHA PEL	ACGIH TLV	C.A.S. NO. (mixture) Cobalt sulfate	SARA
COMMON NAME)	(Mg/M <sup>3</sup> )	(Mg/M <sup>3</sup> )	%	

None

## SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING POINT:** >  $\text{H}_2\text{O}$

**SPECIFIC GRAVITY:** ( $\text{H}_2\text{O}=1$ ) 1.09

**VAPOR PRESSURE:** (MM HG):N/A

**MELTING POINT:**N/A

**VAPOR DENSITY (AIR=1):** N/A

**EVAPORATION RATE:** <  $\text{H}_2\text{O}$

**pH:** 4.5

(BUTYL ACETATE=1): N/A

**APPEARANCE AND ODOR:** Red, slight odor.

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (METHOD):**

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

**EXTINGUISHING MEDIA:** Water

**SPECIAL FIREFIGHTING PROCEDURES:** N/A

**UNUSUAL FIRE & EXPLOSION HAZARDS:** N/A

## SECTION 5 - REACTIVITY DATA

**STABILITY: STABLE:** X **UNSTABLE:**

**CONDITIONS TO AVOID:** N/A

**INCOMPATIBILITY (MATERIALS TO AVOID):** N/A

**HAZARD DECOMPOSITION OR BY-PRODUCTS:** N/A

**HAZARD POLYMERIZATION: MAY OCCUR:** **MAY NOT OCCUR:** X

**CONDITIONS TO AVOID:** N/A

## SECTION 6 - HEALTH HAZARD DATA

**PRODUCT:** Cobalt

**TOXICITY:** None found

**ROUTES (S) OF ENTRY:** INHALATION SKIN: X INGESTION: X

**CARCINOGENICITY:** NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO

**HEALTH HAZARDS (ACUTE & CHRONIC)/SIGNS AND SYMPTOMS OF EXPOSURE:**

This product may cause eye and skin irritation (See emergency and first aid procedures).

**EMERGENCY AND FIRST AID PROCEDURES:**

- Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- Skin:** Wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. If skin irritation continues consult an physician.
- Ingestion:** Do not give anything by mouth to an unconscious person. If swallowed do not induce vomiting, give one or two glasses of milk or water. Contact a physician immediately.

**SECTION 7 - PRECAUTION FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Absorb liquid spills with a dry absorbent, containerize unusable material for disposal in an approved waste facility.

**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:** Store in original plastic containers in a cool, well-ventilated, dry place at temperatures above 50 degrees C. Do not store in contact with strong alkalies, acids, oxidizing agents. Do not stack pallets more than two high.

**OTHER PRECAUTIONS:** Avoid Ingestion, contact with eyes, skin and clothing.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved for mists. Use with adequate ventilation and employ respiratory protection when exposure to mist and spray is possible.

**VENTILATION:**N/A (have adequate ventilation).

**PROTECTIVE GLOVES:** Impervious gloves.

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

**OTHER PROTECTIVE CLOTHING AND EQUIPMENT:** Protective clothing to minimize skin contact should be worn. Chemically-resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eye wash facilities should be provided in all areas in which this product is handled.

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

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