

# SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Cobalt (II) Sulfate Heptahydrate

PRODUCT NUMBER: C2124

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

H302 – Acute toxicity, Oral (Category 4)

H317 – Skin sensitization (Category 1)

H334 – Respiratory sensitization (Category 1)

H350 – Carcinogenicity (Category 1B)

H360 - Reproductive toxicity (Category 1B)

H400 – Acute aquatic toxicity (Category 1)

H410 – Chronic aquatic toxicity (Category 1)

GHS Label elements, including hazard and precautionary statements:

Pictogram:







Signal Word:

Warning

### Hazard Statements:

H302 – Harmful if swallowed

H317 – May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 – May cause cancer

H360 – May damage fertility or the unborn child

H410 – Very toxic to aquatic life with long lasting effects

### **Precautionary Statements:**

P202 – Do not handle until all safety precautions have been read and understood.

P261 – Avoid breathing dust.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 – IF exposed or concerned: Get medical advice/ attention.

Product No: C2124 Page 1 of 5

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Cobaltous sulfateheptahydrate

CAS No.: 10026-24-1Formula:  $CoSO_4\cdot 7H_2O$ Molecular Weight: 281.1 g/mol EC No.: 233-334-2

Ingredient	CAS Number	Percent	Hazardous
Cobalt Sulfate, Heptahydrate	10026-24-1	100%	No exposure limits established by OSHA or ACGIH

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

**First Aid Procedures Route of Entry Symptoms** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Flush immediately with large amounts of water for at least 15 **Eye Contact** Direct contact may cause irritation. minutes. Eyelids should be held away from the eyeball to May cause redness, tearing, or ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash itching or inflammation. contaminated clothing. Get medical attention if irritation

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

persists.

Special Protective Equipment and

**Hazardous Combustion Products:** 

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

May emit toxic fumes under fire conditions.

Toxic Gases Produced: Sulphur oxides, cobalt oxides

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Product No: C2124 Page 2 of 5

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

### 7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Wash thoroughly after

use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

ACGIH's Threshold Limit Values (TLVs): 0.02 mg/m<sup>3</sup>

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red Crystals No data available pH: Solubility: Soluble in Water Melting Point: 98°C (208°F) Vapor Density: No data available Vapor Pressure: No data available Odor: No data available Odor Threshold: No data available

Relative Density: 2.03 g/cm3 at 25°C (77°F) Evaporation Rate: No data available

No data available

Initial Boiling Point and

Viscosity:

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

Product No: C2124 Page 3 of 5

#### 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Moisture

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Sulphur oxides, cobalt oxides

### 11. TOXICOLOGICAL INFORMATION

Toxicity:  $LD_{50}$  (Oral-Rat)(mg/Kg): 582

 $LD_{50}$  (Oral-Mouse)(mg/Kg): No data available  $LD_{50}$  (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: Possible human carcinogen

NTP: Reasonably anticipated to be a human carcinogen (Cobalt(II) sulfate

heptahydrate)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Cobalt(II) sulfate

heptahydrate)

Z List: No OSHA Reg: No

Reproductive Toxicity: Presumed human reproductive toxicant

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Stomach

Medical Conditions

Routes of Entry:

None identified

Aggravated By Exposure:

Inhalation, Ingestion

NIOSH/RTECS NO: GG3200000

# The toxicological properties of this product have not been thoroughly investigated

# 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No readily biodegradable

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

### 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

Product No: C2124 Page 4 of 5

#### 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

### 15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 10026-24-1 Cobalt(II) sulfate heptahydrate

New Jersey Right to Know Components: CAS No.: 10026-24-1 Cobalt(II) sulfate heptahydrate

California Prop. 65 Components: CAS No.: 10026-24-1 Cobalt(II) sulfate heptahydrate

WARNING! This product contains a chemical known to the State of

California to cause cancer.

### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	*	0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
1	0	0	

<sup>\*</sup>Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 12 Jun 15

Product No: C2124 Page 5 of 5