

# SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1** Product identifiers

| Product name | Cobalt sulfate crystal          |
|--------------|---------------------------------|
| CAS number   | 10026-24-1                      |
| Synonyms     | Cobalt monosulfate heptahydrate |

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - Identified uses Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
|-----------|--|
| Telephone | 512-668-9918   |
| Fax       | 512-886-4008   |

#### **1.4 Emergency telephone**

| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|-------------------|------------------------------|----------|
|                   | International 1-352-323-3500 | INFOTRAC |

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

| Acute toxicity - oral             | Category 4  |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2B |
| Respiratory sensitization         | Category 1  |
| Skin sensitization                | Category 1  |

#### 2.2 GHS Label elements, including precautionary statements

| Pictogram                   |  |
|-----------------------------|--|
| Signal Word                 | Danger   |
| Hazard statements           | Harmful if swallowed. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.   |
| Precautionary<br>statements |  |
| Prevention                  | Do not eat, drink or smoke when using this product. Wear respiratory protection. Wear protective gloves. Wear eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.  |
| Response                    | IF IN EYES: Rinse cautiously with water for several minutes. Remove<br>contact lenses, if present and easy to do. Continue rinsing. If eye<br>irritation persists: Get medical advice/attention. IF ON SKIN: Wash with<br>plenty of water. If skin irritation or rash occurs: Get medical<br>advice/attention. Wash contaminated clothing before reuse. IF INHALED:<br>If breathing is difficult, remove person to fresh air and keep comfortable<br>for breathing. If experiencing respiratory symptoms: Call a POISON<br>CENTER or doctor/physician. IF SWALLOWED: Call a POISON<br>CENTER or doctor/physician if you feel unwel. Rinse mouth. |
| Disposal                    | Dispose of contents/container to an approved waste disposal plant.   |

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## **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** No information available.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

| Chemical name  | Common name and synonyms | CAS number | Concentration |
|----------------|--------------------------|------------|---------------|
| Cobalt sulfate |                          | 10026-24-1 | 100%          |
| heptahydrate   | -                        | 10020-24-1 | 100 /8        |

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

## General advice

| If inhaled              | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.               |
|-------------------------|--|
| In case of skin contact | Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. |
| In case of eye contact  | Flush eye with water for 15 minutes. Get medical attention.  |
| If swallowed            | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.                |

#### 4.2 Most important symptoms and effects, both acute and delayed Causes eve irritation. Mild eve irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Abdominal pain. Vomiting. May cause diarrhea. May cause central nervous system effects. It may effect the kidneys.

4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

| Suitable extinguishing media | The product is not flammable. The product itself does<br>not burn. If it is involved in a fire, extinguish the fire<br>using an agent suitable for the type of surrounding<br>fire. |
|------------------------------|---|
|                              |   |

Unsuitable extinguishing media No information available.

### 5.2 Specific hazards arising from the substance or mixture This material is an inorganic dust/powder and will not create nor support conditions that would result in a dust explosion or fire.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 5.4 Further information

Flash Point

No information available

Autoignition Temperature

No information available

| Explosion | limits |
|-----------|--------|
|           | Upper  |
|           | Lower  |

No information available No information available Sensitivity to Mechanical Impact Sensitivity to Static Discharge NFPA No information available No information available

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 0      | 0            | 0           | N/A              |

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Avoid dispersal of dust in the air.

#### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

#### 6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### Incompatibilities

Oxidizing agents.

**SECTION 8: Exposure controls/personal protection** 

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available.

#### **US. ACGIH Threshold Limit Values**

| Component                   | Туре | Value      |
|-----------------------------|------|------------|
| Cobalt sulfate heptahydrate | TWA  | 0.02 mg/m3 |

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

No information available.

#### **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal protective equipment

#### **Eye/face protection** Safety glasses with side-shields.

#### Skin and body protection

Long sleeved clothing. Chemical resistant apron. Gloves.

#### **Respiratory protection**

Wear respirator with dust filter.

#### **Control of environmental exposure**

No information available.

#### **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Solid crystal Red Odorless No information available No information available

| Melting Point/Range<br>Boiling Point/Range | 96.7 - 98 °C / 206.06 - 208 °F<br>No information available                  |
|--|---|
| Evaporation Rate                           | No information available  |
| Flammability (solid)                       | No information available  |
| Flammability or explosive limit            |   |
| Upper                                      | No data available.  |
| Lower                                      | No data available.  |
| Vapor Pressure                             | No information available  |
| Vapor Density                              | No information available  |
| Density                                    | No information available  |
| Solubility                                 | Soluble in water, slightly soluble in methanol, slightly soluble in ethanol |
| Partition coefficient; n-octanol/water     | No information available  |
| Autoignition Temp                          | No information available  |
| Decomposition Temp                         | No information available  |
| Viscosity                                  | No information available  |
| Molecular Formula                          | CoSO4.7H2O  |
| Molecular Weight                           | 281.10 g/mol  |
| VOC Content(%)                             | No information available  |
| Oxidizing properties                       | No information available  |
|  |   |

## 9.2 Other safety information

No information available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Reactive with oxidizing agents

#### 10.2 Chemical stability

Stable under recommended storage conditions

## 10.3 Possibility of hazardous reactions

Reacts violently with strong oxidants causing fire and explosion hazard.

#### **10.4** Conditions to avoid

Heat, ignition sources, incompatible materials, avoid dust formation.

# **10.5** Incompatible materials Oxidizing agents.

Oxidizing agents.

## **10.6 Hazardous decomposition products** Sulfur oxides.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Product Information, Component Information** 

#### Acute toxicity

| Component                   | LD50 Oral       | LD50 Dermal | LC50 Inhalation |
|-----------------------------|-----------------|-------------|-----------------|
| Cobalt Sulfate heptahydrate | 582 mg/kg (rat) | -           | -               |

#### Skin corrosion/irritation

Causes skin irritation. May cause allergic skin reaction.

#### Serious eye damage/eye irritation

Causes eye irritation.

#### Respiratory or skin sensitization

May cause irritation of respiratory tract. Can cause dyspnea (shortness of breath and difficult breathing)

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

| Component                   | CAS        | IARC     | NTP      | ACGIH | OSHA       | Mexico     |
|-----------------------------|------------|----------|----------|-------|------------|------------|
| Cobalt sulfate heptahydrate | 10026-24-1 | Group 2B | Evidence | A3    | Not listed | Not listed |

#### Specific target organ toxicity - single exposure

No information available.

#### Specific target organ toxicity - repeated exposure

No information available

#### **Reproductive toxicity**

No information available

#### Chronic effects

No information available

### 11.2 Additional Information

No information available

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available.

## 12.2 Persistence and degradability

No information available.

#### 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

- **12.5 Results of PBT and vPvB assessment** No information available.
- **12.6 Endocrine disrupting properties** No information available.
- **12.7 Other adverse effects** No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

**DOT (US)** Not regulated

IMDG Not regulated

IATA Not regulated

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Listed

SARA 304 Emergency release notification Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Not listed.

SARA 313 (TRI reporting) Listed Other federal regulations

> Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace Not listed

#### **US state regulations**

US. Massachusetts RTK - Substance List Listed

US. New Jersey Worker and Community Right-to-Know Act Listed

US. Pennsylvania Worker and Community Right-to-Know Law Listed

California Proposition 65 Listed, Carcinogen

**SECTION 16: Other information** 

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**SECTION 17: Disclaimer** 

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.