

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name	Cobalt Sulfate Saturated Solution 35g Co./L Lab Grade
CAS number	10124-43-3
Synonyms	No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 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)

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 2

Respiratory sensitization Category 1B

Skin sensitization Category 1
Germ cell mutagenicity Category 2
Carcinogenicity Category 1A
Reproductive toxicity Category 1B

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Suspected of causing genetic defects
May cause cancer
May cause cancer by inhalation
May damage fertility

Precautionary statements

Prevention:
Do not handle until all safety precautions have been read and understood
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Response:
If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Collect spillage
Storage:
Store locked up
Disposal:
Dispose of contents/container according to label directions

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No hazards not otherwise classified were identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
COBALT (II) SULPHATE	No information available	10124-43-3	28-37%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	Remove person from exposure ensuring one's own safety while doing so. Immediate medical attention is required.
In case of skin contact	Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash off immediately with soap and plenty of water. In case of burns: COOL IMMEDIATELY AND CONTINUOUSLY WITH COPIOUS AMOUNTS OF WATER WHILE WAITING FOR IMMEDIATE TRANSPORT TO A SPECIALISED MEDICAL CENTRE FOR EMERGENCY CARE.
In case of eye contact	Eye bathing equipment should be available on the premises. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely. Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Prevent runoff from fire control from entering streams, sewers, or drinking water supply. If there is accidental release into water courses, drains, soil or vegetation, immediately contact the relevant authorities.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.

Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8. Isolate and post spill area. Keep people away from and upwind of spill/leak. Stop leak if you can do it without risk. In the case of large spills (1 ton or more), alert the appropriate authorities. Ventilate the area.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

6.3 Methods and materials for containment and cleaning up

Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Pick up and transfer to properly labeled containers. Dispose of in accordance with all applicable national environmental laws and regulations.

6.4 Reference to other sections

See Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Avoid contact with skin, eyes, and clothing.

Hygiene measures

Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store above 5°C. Protect from freezing. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

Incompatibilities

Strong oxidizing agents, Strong bases.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

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

No information available.

US. ACGIH Threshold Limit Values

No information available.

US. NIOSH: Pocket Guide to Chemical Hazards

No information available.

Biological occupational exposure limits

No information available.

Other control parameters:

COBALT (II) SULPHATE

DNEL - Inhalation: 105.2 µg/m³ (Workers, Local Effect)

DNEL - Inhalation: 16.6 µg/m³ (Consumers, Local effect)

DNEL - Oral: 25 µg/kg.bw/day (Consumers, Systemic effect)

PNEC: Fresh water = 0.51 µg/L

PNEC: Marine water = 2.36 µg.Co/L

PNEC: Fresh water sediments = 9.5 mg.Co/kg.dw\par Marine sediments = 9.5 mg.Co/kg.dw

PNEC: Soil = 7.9 mg/kg.dw

PNEC-Microorganisms in sewage treatment = 0.373 mg.Co/L

8.2 Exposure controls

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Provide emergency on-site eyewash.

Skin protection

Protective gloves, Impervious butyl rubber gloves, Neoprene gloves, PVC gloves.

Body Protection

Impermeable protective clothing. If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Respiratory protection

The product is not likely to present an airborne exposure concern during normal handling, but in the event of a discharge of the material which produces a heavy vapour or mist, workers should put on officially approved face mask or respiratory protection: Respiratory protection with universal filter type, including particle 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	Liquid
Appearance	Red
Odor	Odorless
Odor Threshold	No information available
pH	1.7 - 2.7
Melting Point/Range	Not applicable
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	1.16 - 1.18
Solubility	Soluble in water

Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Oxidizing properties	Non-oxidizing

9.2 Other safety information No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidizing agents, Strong bases.

10.6 Hazardous decomposition products

May emit toxic fumes under fire conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
COBALT (II) SULPHATE	> 2000 mg/kg (Calculated Estimated Acute Toxicity - EAT)	> 2000 mg/kg (Calculated Estimated Acute Toxicity - EAT)	> 5 mg/L (4-hr) (Calculated Estimated Acute Toxicity - EAT)

Skin corrosion/irritation

Not expected to be irritating based on the components.

Serious eye damage/eye irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

May cause sensitization by inhalation and skin contact

Germ cell mutagenicity

May cause heritable genetic damage

Carcinogenicity

May cause cancer

Specific target organ toxicity - single exposure

No information available.

Specific target organ toxicity - repeated exposure

No information available.

Reproductive toxicity

May cause heritable genetic damage, Suspected of damaging fertility or the unborn child.

Chronic effects

No information available.

11.2 Additional Information

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information**12.1 Toxicity**

FATHEAD MINNOW (*Pimephales promelas*): 96H LC50 = 27.4 mg/L (calculated)

DAPHNID (*Daphnia magna*): 48H LC50 = 45.5 mg/L (calculated)

ALGAE (*Raphidocelis subcapitata*): 72H ErC50 = 6.84 mg/L (calculated)

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Soluble in water.

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

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Dispose of contents/container in accordance with local regulation. For contaminated packaging: clean container with water. Dispose of rinse water in accordance with local and national guidelines.

SECTION 14: Transport information

DOT (US)

UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packaging Group	III

IMDG

UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packaging Group	III

IATA

UN Number	UN3082
Proper Shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packaging Group	III

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

No information available.

CERCLA Hazardous Substance List (40 CFR 302.4)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 304 Emergency release notification

No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

No information available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No information available.

SARA 311/312 Hazardous

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

SARA 313 (TRI reporting)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No information available.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available.

Safe Drinking Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available.

US state regulations

US. Massachusetts RTK - Substance List

This product does not contain any substances regulated by state right-to-know regulations

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

This product does not contain any substances regulated by state right-to-know regulations

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

This product does not contain any substances regulated by state right-to-know regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

SECTION 16: Other information

Date of Issue: 12/29/2025

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.