



UNIVERSAL CHEMICALS

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MATERIAL SAFETY DATA SHEET Cobalt Sulphate

Section 1: Chemical Product and Company Identification

Product Name: Cobalt Sulphate

Catalog Codes : SLC4624

CAS#: 10026-24-1

RTECS: GG3100000

TSCA: TSCA 8(b) inventory: Cobalt Sulphate

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: CoSO_4

Contact Information:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cobalt sulfate	10026-24-1	100

Toxicological Data on Ingredients: Cobalt sulfate : ORAL (LD50): Acute: 582 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage.



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Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.



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Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

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 Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 0.02 (mg/m³) from ACGIH [1995]

Consult local authorities for acceptable exposure limits.



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Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 281.1 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: Decomposes.

Melting Point: 96.8°C (206.2°F)

Critical Temperature: Not available.

Specific Gravity: 2.03 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Easily soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.



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Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 582 mg/kg [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion.

Hazardous in case of skin contact (irritant), of inhalation.

Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.



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Section 15: Other Regulatory Information

Federal and State Regulations:

TSCA 8(b) inventory: Cobalt sulfate

SARA 313 toxic chemical notification and release reporting: Cobalt sulfate.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS : CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS :

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association :

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall UNIVERSAL CHEMICALS be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if UNIVERSAL CHEMICALS has been advised of the possibility of such damages.



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Inorganic chemicals

PRODUCTS	APPLICATION
Aluminium Hydroxide	Pharmaceutical
Barium Carbonate	Ceramic, Paint, Glass, Rubber
Basic Chromium Sulphate	Electro Plating, Paint, Rubber, Textile, Leather
Borax Deca Hydrate	Ceramic, Glass
Boric Acid	Agriculture, Ceramics, Glass, Pharmaceutical
Cobalt Sulphate	Animal Feed, Ceramic, Electroplating
Copper Sulphate	Agriculture, Animal Feed
Ferrous Carbonate	Animal Feed, Pharmaceutical
Ferrous Fumarate	Pharmaceutical
Ferrous Sulphate	Agriculture, Animal Feed, Leather, Textile
Magnesium Carbonate	Ceramic, Cosmetic, Pharmaceutical
Magnesium Chloride	Pharmaceutical, Leather, Textile
Magnesium Hydroxide	Ceramic, Glass, Pharmaceutical, Rubber
Magnesium Oxide Light / Heavy	Ceramic, Glass, Rubber
Magnesium Stearate	Pharmaceutical
Magnesium Sulphate	Animal Feed
Magnesium Trisilicate	Cosmetic, Pharmaceutical
Manganese Chloride	Leather, Textile
Manganese Oxide	Animal Feed, Pharmaceutical
Manganese Sulphate	Animal Feed
Nickel Sulphate	Electro Plating, Printing Ink
Potassium Acetate	Pharmaceutical, Textile
Potassium Dichromate	Ceramic, Textile
Sodium Dichromate	Leather, Textile, Paint, Pharmaceutical
Zinc Acetate	Ceramic, Textile
Zinc Carbonate	Ceramic, Pharmaceutical, Rubber
Zinc Sulphate	Agriculture, Animal Feed
Zinc Oxide (Animal Feed Grade)	Animal Feed, Ceramic, Glass, Pharmaceutical &
Zinc Oxide (Ceramic Grade)	Cosmetic, Paint
Zinc Oxide (Pharmaceutical & Cosmetic Grade)	
Zinc Oxide (Paint Grade)	
Zinc Oxide (Rubber Grade)	

Food Colors

PRODUCTS	APPLICATION
Amaranth	Food Color
Brilliant Blue	Food Color
Ponceau 4R	Food Color
Sunset Yellow	Food Color
Tartrazine	Food Color

Blended Food Colors

APPLE GREEN	BANANA	BLACK CURRENT
BOTTLE GREEN	BRIGHT BLACK	CHOCOLATE BROWN/ TAS
CHOCOLATE PN / FCF	COLA CHOCOLATE	EGG YELLOW
FALSA /GRAPE	KESAR SUPRA	KHALA KHATTA
LEMON YELLOW	ORANGE RED	PEA GREEN
RASPBERRY RED	ROSE PINK	STRAWBERRY RED
TOMATO RED	VINO	