

# VETPAK SAFETY DATA SHEET

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## Section 1: Identification of the Substance or Mixture and of the Supplier

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**Product Name:** Cobalt Sulphate Heptahydrate

**Other names:** Cobalt Sulphate, Cobalt (II) Sulphate, Cobaltous Sulphate

**Recommended Use:** As a nutritional dietary trace element supplement in livestock.

**Company Details:** Vetpak Ltd.

**Address:** 150 Rickit Road, Te Awamutu.

**Telephone Number:** (07) 870 2024

**Emergency Telephone Number:** (07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays. National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

**Date of Review:** 8<sup>th</sup> August 2008

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## Section 2: Hazards Identification

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**Hazards Classification:** Hazardous according to the criteria of HSNO. 6.1D, 6.3A, 6.4A, 6.5A, 6.7B, 6.8B, 6.9A, 9.1A, 9.3B

**ERMA New Zealand Approval Code:** 170167

### Hazard Statements:

Harmful: if swallowed, inhaled or in contact with skin.

Warning: causes skin irritation.

Warning: causes eye irritation.

Danger: may cause allergy or asthma symptoms or breathing difficulties if inhaled.

Warning: suspected of causing cancer, and damaging fertility or the unborn child.

Danger: Causes damage to organs through prolonged or repeated exposure (respiratory and cardiac system).

Warning: Very toxic to aquatic life with long lasting effects.

Toxic to terrestrial vertebrates.

### Prevention Statements:

Keep out of reach of children.

Read label before use.

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

Do not eat drink or smoke when using this product.

Wash hands thoroughly after handling.

Do not breathe dust.

Use personal protective equipment as required.

Avoid release to the environment.

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## Section 3: Composition / Information on Ingredients:

### INGREDIENTS:

Pure Substance	CAS Number	Proportion
Cobalt Sulphate Heptahydrate	10026-24-1	>99%

## Section 4: First Aid Measures:

**Swallowed:** If victim is conscious and alert, give 2 to 4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

**Skin:** Remove contaminated clothing. Flush skin thoroughly with plenty of soap and water. Seek medical attention.

**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes lifting the upper and lower lids. Seek medical attention.

**Inhaled:** Remove victim from exposure to fresh air immediately. If NOT breathing apply artificial respiration. If breathing is difficult administer oxygen.

**Workplace Facilities:** Ensure an eye bath and running water are available and ready for use.

**Aggravated medical conditions caused by exposure:** Prolonged inhalation of cobalt dust, fumes or mist containing cobalt may cause serious respiratory illness. There are references in literature associating cobalt with interstitial fibrosis, a disease which can be fatal. Allergic or hypersensitive persons may develop a skin reaction or obstructive lung disease.

**Notes for Medical Personnel:** Treat symptomatically based on individual reactions of patient and judgment of doctor.

## Section 5: Fire Fighting Measures

**Type of Hazard:** Product is non-flammable.

**Hazards from Combustion Products:** Product is stable under normal conditions of use and storage. Avoid dust generation, moisture, extreme heat and high temperatures. Sulphur oxides are hazardous decomposition products. Hazardous polymerisation will not occur.

**Extinguishing Media & Methods:** In case of fire, use appropriate media most suitable for surrounding fire conditions.

**Recommended Protective Clothing:** Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

## Section 6: Accidental Release Methods

**Emergency Procedures:** Personal involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority.

**Methods and Materials for Containment and Cleanup:** Contain and sweep / shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for disposal. Once pick up is complete, flush spill site with water to eliminate any residue. In case of water contamination, precipitate with CAOHLIME.

## Section 7: Handling and Storage



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**Handling Practices:** Ensure an eye bath and safety shower are available and ready for use. Handle in accordance with good industrial hygiene. And safety practice. Wash thoroughly after handling.

**Store Site Requirements:** Store in cool, dry, well ventilated area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect from physical damage. Store away from incompatible materials.

**Packaging:** Store in the original, labelled container with the lid tightly closed.

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## Section 8: Exposure Controls / Personal Protection

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### Subsection 1: Workplace Exposure Guidelines (may also be considered in Section 2)

**Workplace Exposure Standards:** ERMA NZ recommends the following exposure limits: Cobalt metal dust and fume: TWA 0.05 mg/m<sup>3</sup>. Animal carcinogen.

**Engineering Controls:** Ensure adequate local or general exhaust ventilation to maintain airborne concentrations of dust, vapour or fumes below the standards.

#### Personal Protection:

**Respirator:** Wear an NIOSH approved respirator if engineering controls are inadequate.

**Eyes:** Safety goggles.

**Hands:** PVC gloves.

**Clothing:** Cotton overalls and boots.

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## Section 9: Physical and Chemical Properties

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**Specify data for the product not the individual components:**

#### Required Specifications:

**Physical State:** Powder

**Formula:** CoSO<sub>4</sub>.7H<sub>2</sub>O.

**Appearance:** Red to brown powder or crystals.

**Boiling Point / Melting Point:** N/A, 96°C

**Vapour Pressure:** N/A.

**Specific Gravity:** 1.95 (Water = 1)

**Flash Point:** N/A.

**Flammability Limits:** N/A.

**Solubility in Water:** Soluble.

**pH:** 3 – 5 (5% solution)

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## Section 10: Stability and Reactivity

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**Stability of the Substance:** Stable under normal conditions of use and storage.

**Conditions to avoid:** Avoid dust generation, moisture, extreme heat and high temperatures.

**Material to avoid:** Avoid foodstuffs and sources of ignition.

**Hazardous decomposition Products:** Sulphur oxides.

**Hazardous polymerization:** Does not occur.

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## Section 11: Toxicological Information

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**Toxicity Data:** Oral LD<sub>50</sub> Rat: 582mg/kg. Sheep given a single oral dose were killed by given quantities between 15g and 55g, the average lethal dose being 330mg/kg of hydrated cobalt sulphate.

**Acute Effects:**

**Swallowed:** May cause gastrointestinal irritation with nausea, vomiting and diarrhoea.

**Skin:** Prolonged or repeated contact may cause irritation and / or dermatitis. May cause skin sensitization (an allergic reaction) which becomes evident upon re-exposure to the product.

**Eye:** Causes irritation, redness and pain.

**Inhaled:** Causes respiratory tract irritation.

**Long Term Effects:** May cause cancer by inhalation.

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## Section 12: Ecological Information

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**Potential Environmental Considerations:** May cause long term effects in the aquatic environment.

**Environmental risk phrases:** Very toxic to aquatic life.

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## Section 13: Disposal Considerations

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**Disposal Information:** Rinse empty container before disposal – add rinsings to use solutions. Crush and bury in a suitable landfill or if appropriate, recycle. Avoid contamination of any waterway with chemical or empty container.

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## Section 14: Transport Information

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**Shipping Name:** Cobalt Sulphate Heptahydrate.

**Hazchem Code:** N/A.

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## Section 15: Regulatory Information

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**Poisons Schedule:** N/A

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## Section 16: Other Information

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**Additional Information:** National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

1. The above information has been compiled on the basis of good faith, and our experience from the available technical knowledge and data for this product.
  2. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used.
  3. No responsibility can be accepted for the wrongful or misinterpretation of this data.
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