



Section 1 – Identification of the substance/preparation and the company

Product Name: Cobalt Concentrate Solution
Company: Donaghys Ltd
Address: 16 Sheffield Crescent
PO Box 20 449
Christchurch
New Zealand
Telephone Number: 0800 942 006
Manufacturer Product Code: ACO0020
Recommended Use: An animal remedy used to prevent and treat trace element deficiencies by drinking water medication, or by daily oral drenching

Section 2 – Hazard Identification

HSNO Classifications: 6.3B, 6.5B, 6.8B, 6.9B, 9.1B
GHS Hazard Classifications: Skin sensitisation Category 1
Reproductive toxicity Category 2
Specific target organ toxicity – repeated exposure Category 2
Hazardous to the aquatic environment chronic Category 2



Hazard Statements:
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child
H373 - Causes damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Precaution Statements:
P103 - Read label before use
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P281 - Use personal protective equipment as required

Signal Word: WARNING

EPA NZ Approval Code: HSR002521



Section 3 – Composition Information

Chemical Entity	CAS No.	Content [%]
Cobalt Sulfate Heptahydrate	10026-24-1	4

Section 4 – First Aid Measures

If Swallowed:	Give milk or water to drink, if feeling unwell seek 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 irritation persists, get medical advice / attention.
If on skin:	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention. Wash contaminated clothing before re-use.
If inhaled:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a POISON CENTRE or doctor / physician.

Advice to Doctor: Treat symptomatically.

If medical advice is needed, have product container or label at hand

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

Section 5 – Fire-fighting Measures

Flashpoint:	Not applicable
Combustion Products:	May evolve toxic gases under extreme fire conditions
Flammability Limits:	Not applicable
Protective Equipment:	Breathing apparatus and protective gloves
Extinguishing Media:	Based on surrounding materials
Special Fire Fighting Methods:	None

Section 6 – Accidental Release Measures

Spills and Disposal:	Collect Spillage. Mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Protective Equipment:	Wear protective gloves and face/eye protection.
Environmental Precautions:	Avoid entry into waterways or streams. Prevent washings from entering waterways.

Section 7– Handling and Storage

Storage:	Store out of direct sunlight. Keep container lid tightly closed. Store locked up. Keep out of reach of children.
Handling:	Read label before use. Wear eye / face protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)



Section 8 – Exposure Controls/Personal Protection

These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions.

Exposure Limits:	Not available
Protective Equipment:	Observe good workplace practices and avoid contact with skin and eyes. Wear overalls, safety glasses and waterproof gloves when handling. Wear eye / face protection. In case of inadequate ventilation wear respiratory protection.
Hygiene Precautions:	Do not eat, drink or smoke when using this product.
Engineering Controls:	No special engineering controls necessary for normal use.

Section 9 – Physical and Chemical Properties

Appearance:	Blue liquid
Odour:	No noticeable odour
Specific Gravity:	1.02
pH:	3.0 – 4.5
Vapour Pressure:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Flammability Limits:	N/A
Solubility:	Soluble in water

Section 10 – Stability and Reactivity

Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid:	None
Materials to Avoid:	None
Hazardous Decomposition Products:	None

Section 11 – Toxicological Information

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Ingestion:	Product is not acutely toxic but contains cobalt sulfate in low concentrations. LD ₅₀ (oral) (cobalt sulfate) = 330mg/kg (b.w.)
Inhalation:	Product may cause respiratory irritation
Dermal:	Product is a skin irritant and may cause allergic reactions
Ocular:	Product is not irritating to eyes
Mutagenicity:	No mutagenic effects are known
Carcinogenicity:	Product is not suspected of causing cancer
Reproductive Effects:	Product is suspected of causing damage to fertility or to the unborn child
Chronic Effects:	Product may cause organ damage through prolonged or repeated exposure

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National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)



Section 12 - Ecological Information

EPA Classification: 9.1B
Ecotoxicity: Toxic to aquatic life
Bioaccumulation: Unknown. Product aquatic toxicity has long lasting effects

Section 13 – Disposal Considerations

Product Disposal: If possible, dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways

Container Disposal: Triple rinse container and add residue to feed system. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise crush and bury in a suitable landfill.

Section 14 – Transport Information

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains cobalt sulfate solution)

UN Number: 3082

DG Class: 9

Subsidiary Risk Class: None

Packing Group: III

HAZCHEM Code: 3Z

Section 15 – Regulatory Information

EPA NZ Registration Code: HSR002521

ACVM Approval Number: No ACVM approval required

APVMA Registration Number: No APVMA approval required

Section 16 – Other Information

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre)