




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

Product Name:	Custom Mineral Mix
Company:	Donaghys Ltd
Address:	16 Sheffield Crescent PO Box 20 449 Christchurch New Zealand
Telephone Number:	0800 942 006
Manufacturers Product Code:	ACMB025 (Bulk) / ACMS025 (Sachet)
Recommended Use:	An animal remedy used to prevent and treat trace element deficiencies in dairy cows by addition to inline water dosing systems

Section 2 – Hazard Identification

HSNO Classifications:	6.1D, 6.3A, 6.5A, 6.5B, 6.6B, 6.7B, 6.8B, 6.9B, 8.3A, 9.1A, 9.2C, 9.3C
GHS Hazard Classifications:	Acute oral toxicity Category 4 Acute dermal toxicity Category 4 Acute inhalation toxicity Category 4 Skin irritation Category 2 Respiratory sensitisation Category 1 Skin sensitisation Category 1 Germ cell mutagenicity Category 2 Carcinogenicity Category 2 Reproductive toxicity Category 2 Specific target organ toxicity – repeated exposure Category 2 Serious eye damage Category 1 Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms Hazardous to terrestrial vertebrates
	
Hazard Statements:	H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H332 - Harmful if inhaled H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child H373 - May cause damage to organs through prolonged or repeated exposure H410 - Very toxic to aquatic life with long lasting effects H423 - Harmful to the soil environment H433 - Harmful to terrestrial vertebrates
Precaution Statements:	P102 - Keep out of reach of children P103 - Read label before use

IN CASE OF EMERGENCY PHONE
National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)



Precaution Statements:
(Continued)

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
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
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
P285 - In case of inadequate ventilation wear respiratory protection

Signal Word:

DANGER

EPA NZ Approval Code:

HSR002521
Animal Nutritional and Animal Care Products Group
Standard 2006

Section 3 – Composition Information

Chemical Entity	CAS No.	Content [%]
Sodium Selenate	13410-01-0	<0.5
Copper Sulfate	7758-98-7	<20
Cobalt Sulfate	10026-24-1	<1
Zinc Sulfate Monohydrate	7446-19-7	<30
EDDI Iodine	5700-49-2	<0.5

Section 4 – First Aid Measures

If Swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor/physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

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 exposed or concerned: Call a POISON CENTRE or doctor/physician.

If medical advice is needed, have product container or label at hand. POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

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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:	Contain spill and sweep up. Dispose of waste safely according to the regulations of local authorities. Avoid generating dust. Collect spillage.
Protective Equipment:	Wear protective gloves and face/eye protection
Environmental Precautions:	Avoid entry into waterways or streams. Prevent washings from entering waterways. If spill does enter waterways, contact the local authority.

Section 7– Handling and Storage

Storage:	Store out of direct sunlight. Store locked up. Keep out of reach of children.
Handling:	Do not handle until all safety instructions have been read and understood. Do not eat, drink or smoke when using this product Wear protective overalls, gloves and eye / face protection. Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. Wash hands thoroughly after handling Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. Avoid release to the environment.
Other Information:	Contraindication: Selenium. This product should not be used when selenium intake from pasture is high, or selenium is provided by other means (such as pasture top dressing, vaccine, pellets or selenium drenches) if blood selenium levels at treatment are high. Users can determine the stock selenium status by consulting their veterinarian.

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:	Particulates not otherwise classified: WES-TWA = 10mg/m ³ inspirable dust, 3mg/m ³ dust Cobalt metal dust and fume (as Co) WES = 0.05mg/m ³ Copper dust and mist (as Cu) WES-TWA = 1 mg/m ³
Protective Equipment:	Observe good workplace practices and avoid contact with skin and eyes. Wear overalls, full face shield and elbow-length impervious

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gloves when handling. In case of inadequate ventilation wear respiratory protection.

Hygiene Precautions: Do not eat, drink or smoke when using this product. Always wash hands before eating, drinking or smoking or using the toilet. Wash protective clothing daily after work.

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dusts below their respective threshold limit value.

Section 9 – Physical and Chemical Properties

Appearance:	Blue crystalline solid
Odour:	None
Specific Gravity:	>1
pH:	N/A
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:	Moisture. Reduce exposure to air to preserve shelf life.
Materials to Avoid:	Galvanized iron, Strong acids
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 contains low concentrations of minerals known to be acutely toxic. (Selenium, Copper, Cobalt). LD ₅₀ (Oral) (Sodium Selenate) = 25mg/kg LD ₅₀ (Oral) (Copper Sulfate) = 300mg/kg LD ₅₀ (Oral) (Cobalt Sulfate) = 582mg/kg LD ₅₀ (Oral) (Zinc Sulfate) = 1710mg/kg Ingestion of large quantities of this product may cause vomiting, abdominal pain, dizziness, convulsions, shock, coma and possible death.
Inhalation:	Product may cause respiratory irritation, distress or asthma
Dermal:	Product is a skin irritant and may cause allergic reactions or dermatitis
Ocular:	Product is strongly damaging to eyes
Mutagenicity:	Product may cause genetic defects



Carcinogenicity:	Product contains a known animal carcinogen (cobalt)
Reproductive Effects:	Product is suspected of causing damage to fertility or to the unborn child
Chronic Effects:	Product causes organ damage through prolonged or repeated exposure

Section 12 - Ecological Information

EPA Classifications:	9.1A, 9.2C, 9.3C
Ecotoxicity:	Very toxic to aquatic life with long lasting effects. Harmful to the soil environment. Harmful to terrestrial vertebrates.
Bioaccumulation:	Product contains bioaccumulative and ecologically persistent ingredients

Section 13 – Disposal Considerations

Product Disposal:	Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional and national environmental regulations. Donaghys is a member of the Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit www.agrecovery.co.nz .
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Section 14 – Transport Information

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Copper Sulfate Pentahydrate)
UN Number:	3077
DG Class:	9
Subsidiary Risk Class:	None
Packing Group:	III
HAZCHEM Code:	2Z

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 Industries Ltd for more information.

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

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