







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

Product Name: DairyMin 5 BULK
Company: Donaghys Industries Ltd
Address: 16 Sheffield Crescent
PO Box 20 449
Christchurch
New Zealand
Telephone Number: 0800 942 006
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

Hazard Classes:

		6.1D Harmful if swallowed, inhaled or absorbed through the skin
		6.3A Causes Skin Irritation
		6.5A May cause allergy or asthma symptoms or breathing difficulties if inhaled
		6.5B May cause an allergic skin reaction
		6.6B Suspected of causing genetic defects
		6.7B Suspected of causing cancer
		6.8B Suspected of damaging human fertility or the unborn child
		6.9B May cause damage to organs through prolonged or repeated exposure
		8.3A Causes serious eye damage
		9.1A Very toxic to aquatic life with long lasting effects
		9.2C Harmful to the soil environment
		9.3C Harmful to terrestrial vertebrates

EPA NZ Approval Code: HSR002521 Animal Nutritional and Animal Care Products Group Standard 2006

Signal word: DANGER

Section 3 – Composition Information

Chemical Entity	CAS No.	Content [%]
Sodium Selenate	13410-01-0	<0.5%
Copper Sulfate	7758-98-7	<35%
Cobalt Sulfate	10026-24-1	<1.5%
Zinc Sulfate Monohydrate	7446-19-7	<60%
EDDI Iodine	5700-49-2	<1.0%

Section 4 – First Aid Measures

If Swallowed: Rinse mouth. Call a POISON CENTRE or doctor/physician if you feel unwell. If medical advice is needed, have product container or label on hand.

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If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. If eye irritation persists: Get medical advice/attention.
If on skin:	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs, get medical advice / attention.
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.

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:	Contain spill and sweep up. Dispose of waste safely according to the regulations of local authorities. Avoid generating dust.
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. Keep container tightly closed. 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 reuse. Avoid release to the environment.

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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/m³ inspirable dust, 3mg/m³ dust
Cobalt metal dust and fume (as Co) WES = 0.05mg/m³
Copper dust and mist (as Cu) WES-TWA = 1mg/m³

Protective Equipment: Observe good work place practices and avoid contact with skin and eyes. Wear overalls, full face shield and elbow-length impervious 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
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 expose 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 expected if the product is handled in accordance with this Safety Data Sheet and the product label.

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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 LD ₅₀ (Oral) (Sodium Chloride) = 3000mg/kg Ingestion of large quantities of this product may cause vomiting, abdominal pain, dizziness, convulsions, shock, coma and possible death. Repeated ingestion of significant quantities of Sodium Chloride may cause body electrolyte and fluid imbalance.
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 Classification:	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:	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:	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, SOLID, N.O.S. (contains copper sulfate)
UN Number:	3077
DG Class:	9
Subsidiary Risk Class:	None
Packing Group:	III
HAZCHEM Code:	2X

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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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