



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

**Product Name:** DairyMin® 4 Bulk  
**Company:** Donaghys Ltd  
**Address:** 16 Sheffield Crescent  
PO Box 20 449  
Christchurch  
New Zealand  
**Telephone Number:** 0800 942 006  
**Manufacturer Product Code:** ADM4B025  
**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

**GHS 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

**GHS Pictograms:**



**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 Hazardous to soil organisms Hazardous to terrestrial vertebrates



- Prevention Statements:**
- P102 Keep out of reach of children.
  - 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.
  - 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.
- Response Statements:**
- P101 If medical advice is needed, have product container or label at hand.
  - P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
  - P330 Rinse mouth.
  - P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
  - P362 Take off contaminated clothing and wash before re-use.
  - P332 + P313 If skin irritation occurs: Get medical advice/attention.
  - P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P363 Wash contaminated clothing before reuse.
  - P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
  - P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
  - P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
  - P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
  - P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
  - P308 + P313 IF exposed or concerned: Get medical advice/attention.
  - P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
  - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTRE or doctor/physician.
  - P391 Collect spillage.



**Storage:** P405 Store locked up.  
**Signal Word:** DANGER  
**EPA NZ Approval Code:** HSR002521  
Animal Nutritional and Animal Care Products  
Group Standard 2017

**Section 3 – Composition Information**

Chemical Entity	CAS No.	Content [%]
Sodium Selenate	13410-01-0	0.24
Cobalt Sulfate	10026-24-1	0.57
Zinc Sulfate Monohydrate	7446-19-7	27.47
EDDI Iodine	5700-49-2	0.25

**Section 4 – First Aid Measures**

**If Swallowed:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE (0800 764 766) or doctor/physician. If medical advice is needed, have product container or label at hand.

**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. 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.

IF exposed or if you feel unwell: 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)**

**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

**IN CASE OF EMERGENCY PHONE**

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



### 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.  
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 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<sup>3</sup>  
inspirable dust, 3mg/m<sup>3</sup> dust  
Cobalt metal dust and fume (as Co) WES = 0.05mg/m<sup>3</sup>  
Copper dust and mist (as Cu) WES-TWA = 1mg/m<sup>3</sup>
- Protective Equipment:** Observe good workplace 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.

#### IN CASE OF EMERGENCY PHONE

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### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	White crystalline solid
<b>Odour:</b>	None
<b>Specific Gravity:</b>	>1
<b>pH:</b>	N/A
<b>Vapour Pressure:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Flammability Limits:</b>	N/A
<b>Solubility:</b>	Soluble in water

### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Conditions to Avoid:</b>	Moisture. Reduce expose to air to preserve shelf life.
<b>Materials to Avoid:</b>	Galvanized iron, Strong acids
<b>Hazardous Decomposition Products:</b>	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.**

<b>Ingestion:</b>	Product contains low concentrations of minerals known to be acutely toxic. (Selenium, Cobalt). LD <sub>50</sub> (Oral) (Sodium Selenate) = 25mg/kg LD <sub>50</sub> (Oral) (Cobalt Sulfate) = 582mg/kg LD <sub>50</sub> (Oral) (Zinc Sulfate) = 1710mg/kg LD <sub>50</sub> (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.
<b>Inhalation:</b>	Product may cause respiratory irritation, distress or asthma
<b>Dermal:</b>	Product is a skin irritant and may cause allergic reactions or dermatitis
<b>Ocular:</b>	Product is strongly damaging to eyes
<b>Mutagenicity:</b>	Product may cause genetic defects
<b>Carcinogenicity:</b>	Product contains a known animal carcinogen (cobalt)
<b>Reproductive Effects:</b>	Product is suspected of causing damage to fertility or to the unborn child
<b>Chronic Effects:</b>	Product causes organ damage through prolonged or repeated exposure



### Section 12 - Ecological Information

<b>EPA Classification:</b>	Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms Hazardous to terrestrial vertebrates
<b>Ecotoxicity:</b>	Very toxic to aquatic life with long lasting effects. Harmful to the soil environment. Harmful to terrestrial vertebrates.
<b>Bioaccumulation:</b>	Product contains bioaccumulative and ecologically persistent ingredients

### Section 13 – Disposal Considerations

<b>Product and Container Disposal:</b>	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 Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit <a href="http://www.agrecovery.co.nz">www.agrecovery.co.nz</a> .
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### Section 14 – Transport Information

<b>Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S (Contains Zinc Sulfate, Cobalt Sulfate)
<b>UN Number:</b>	3077
<b>DG Class:</b>	9
<b>Subsidiary Risk:</b>	None
<b>Packing Group:</b>	III
<b>HAZCHEM Code:</b>	2Z

### Section 15 – Regulatory Information

<b>EPA NZ Registration Code:</b>	HSR002521 See <a href="http://www.epa.govt.nz">http://www.epa.govt.nz</a> for approval conditions
<b>ACVM Approval Number:</b>	No ACVM Approval Required
<b>APVMA Registration Number:</b>	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)**

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