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

**Product Name:** Dairy Min DMX  
**Company:** Donaghys Ltd  
**Address:** 16 Sheffield Crescent  
 PO Box 20 449  
 Christchurch  
 New Zealand  
**Telephone Number:** 0800 942 006  
**Manufacturer Product Code:** AMDMX25  
**Recommended Use:** An animal remedy loose salt lick used to assist with the supplementation of trace element deficiencies in dairy cows.

**Section 2 – Hazard Identification**

**DG Pictograms:**  **HSNO Classifications:**  
 Eye irritation Category 2  
 Skin sensitisation Category 1  
 Reproductive toxicity Category 2  
 Specific target organ toxicity – single exposure Category 2  
 Specific target organ toxicity – repeated exposure Category 2  
 Hazardous to the aquatic environment acute Category 1  
 Hazardous to the aquatic environment chronic Category 1

**Hazard Statements:**  
 May be harmful if swallowed.  
 May be harmful in contact with skin.  
 May be harmful if inhaled.  
 Causes mild skin irritation.  
 Causes eye irritation.  
 May cause an allergic skin reaction.  
 Suspected of damaging fertility or the unborn child.  
 May cause damage to organs.  
 Very toxic to aquatic life with long lasting effects.

**Prevention Statements:**  
 Keep out of reach of children.  
 Read label before use.  
 Wash hands thoroughly after handling.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Use personal protective equipment as required.  
 Avoid release to the environment.  
 Do not eat, drink or smoke when using this product.

**Signal Word:** Warning.  
**EPA NZ Approval Code:** HSR002521 Animal Nutritional and Animal Care Products Group Standard 2006

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



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### Section 3 – Composition Information

Chemical Entity	CAS No.	Content [%]
Copper Sulfate	7758-98-7	1.6%
Cobalt Sulfate	10026-24-1	0.1%
Zinc Sulfate Monohydrate	7446-19-7	3.3%
Other ingredients determined to be non-hazardous	N/A	Balance

### Section 4 – First Aid Measures

<b>If Swallowed:</b>	DO NOT induce vomiting. Rinse mouth and give milk or water to drink. If unwell call a POISON CENTRE or doctor/physician
<b>If in eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. If irritation persists call a POISON CENTRE or doctor/physician.
<b>If on skin:</b>	Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention. Wash contaminated clothing before re-use.
<b>If inhaled:</b>	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.
<b>Advice to Doctor:</b>	Treat symptomatically.

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

### Section 5 – Fire-fighting Measures

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

### Section 6 – Accidental Release Measures

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

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### 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:** 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.

**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 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:** Grey/yellow powder  
**Odour:** None  
**Specific Gravity:** >1  
**pH:** N/A  
**Vapour Pressure:** N/A  
**Flash Point:** N/A  
**Autoignition:** N/A  
**Temperature:**  
**Flammability Limits:** N/A  
**Solubility:** Soluble in water

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**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

**Section 10 – Stability and Reactivity (cont.)**

**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.**

**Ingestion:** Product contains low concentrations of minerals known to be acutely toxic. (Selenium, Copper, Cobalt).  
LD<sub>50</sub> (Oral) (Sodium Selenate) = 25mg/kg  
LD<sub>50</sub> (Oral) (Copper Sulfate) = 300mg/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.

**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 irritating to eyes

**Mutagenicity:** Product is not known cause genetic defects

**Carcinogenicity:** Product is not known to be carcinogenic

**Reproductive Effects:** Product is suspected of causing damage to fertility or to the unborn child

**Chronic Effects:** Product causes damage through prolonged or repeated exposure

**Section 12 - Ecological Information**

**EPA Classification:** Hazardous to the aquatic environment acute Category 1  
Hazardous to the aquatic environment chronic Category 1

**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.

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#### Section 14 – Transport Information

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains copper sulfate)  
**UN Number:** 3077

#### Section 14 – Transport Information (cont.)

**DG Class:** 9  
**Subsidiary Risk Class:** None  
**Packing Group:** III  
**HAZCHEM Code:** 2X

#### Section 15 – Regulatory Information

**EPA NZ Registration Code:** HSR002521  
**ACVM Approval Number:** A00XXXX

#### 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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