

# Safety Data Sheet

## DCM™ Gold

Revised: 22/03/2017

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	DCM™ GOLD
<b>Other Names:</b>	Previously named DCM™ Chelate
<b>Product Code:</b>	8290110
<b>Recommended Use:</b>	A multi-mineral product for dairy cattle
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road, Hornby PO Box 1049 Christchurch
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Telephone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone:</b>	111 - tell operator what service is needed: Fire, Ambulance, Police

### Section 2: HAZARD IDENTIFICATION

<b>Hazard Classifications:</b>	6.1D, 6.5B, 6.7B, 6.8B, 6.9B, 8.3A, 9.1A, 9.2C, 9.3C
<b>Priority Identifiers:</b>	WARNING KEEP OUT OF REACH OF CHILDREN
<b>Secondary Identifiers:</b>	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.5B = Respiratory sensitiser 6.7B = Carcinogenic 6.8B = May damage fertility 6.9B = Harmful to human target organs or systems 8.3A = Corrosive to the eyes 9.1A = Very toxic to aquatic organisms 9.2C = Harmful to soil environment 9.3C = Harmful to terrestrial vertebrates

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Sodium Selenate Anhydrous	13410-01-0	0.25 %
Copper Chelate	536974-53-5	12.5 %
Cobalt Sulphate Heptahydrate	10026-24-1	0.95 %
Zinc Sulphate Monohydrate	7446-19-7	34 %
EDDI	5700-49-2	0.5 %
Sodium Chloride	7647-14-5	51 %
Tixosil	112926-00-8	1 %

### Section 4: FIRST AID MEASURES

<b>First Aid Measures:</b>	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
<b>Inhalation:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
<b>Skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
<b>Eye:</b>	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor immediately.
<b>Advice to Doctor:</b>	No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

### Section 5: FIRE FIGHTING MEASURES

<b>Flash Point:</b>	Not applicable (non-flammable)
<b>Combustion Products:</b>	Decomposes on heating emitting toxic fumes, including those of oxides of copper, and oxides of sulphur.
<b>Extinguishing Media:</b>	Based on surrounding materials
<b>Protective Equipment:</b>	Breathing apparatus plus protective gloves
<b>HAZCHEM Code:</b>	2Z

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precaution:</b> the	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required.
	<b>Approved Handler:</b> Not required
	<b>Tracking:</b> Not required
	<b>Record Keeping:</b> Not required
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409; Management of Agrichemicals. This product is subject to signage when stored in quantities of 100 kg or more, either alone or in aggregate with substances of the same hazard classification. Storage of more than 100 kg requires emergency response plans. For full details refer to NZS 8409; Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
<b>Other Information:</b>	Always read the label before use. See label for further information on handling and storage.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Limits:</b>	No value assigned for this specific material by the New Zealand Occupational Safety & Health Service (OSH). However, Exposure Standard(s) for constituents(s):  Particulates not otherwise classified: WES-TWA 10mg/m <sup>3</sup> inspirable dust, 3mg/m <sup>3</sup> dust.  (WES): Cobalt metal dust and fume (as Co) 0.05mg/m <sup>3</sup> A3 Carcinogen [confirmed animal carcinogen] ACGIH Threshold Limit Value (TLV): Inorganic cobalt compounds (as Co) 0.02mg/m <sup>3</sup> Tolerable Exposure Limit (TEL): Not assigned  Copper dust & mist, as Cu: WES-TWA 1 mg/m <sup>3</sup> Copper fume: WES-TWA 0.2 mg/m <sup>3</sup>
<b>Protective Equipment:</b>	Wear overalls, full face shield, elbow-length impervious gloves, splash apron and rubber boots. Use with adequate ventilation. If inhaled risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
<b>Engineering Controls:</b>	Handle in well-ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust. Keep containers closed when not in use.
<b>Hygiene Precautions:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light blue powder
<b>Odour:</b>	Slight odour
<b>Specific Gravity:</b>	1.95
<b>Solubility in Water:</b>	Soluble (approx 200g per litre at room temperature)
<b>Flash Point:</b>	Not applicable (non-flammable)

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions. When stored appropriately this product should show no significant degradation for at least 5 years from the date of manufacture.
<b>Hazardous Polymerisation:</b>	Hazardous polymerisation is not likely to occur
<b>Hazardous Decomposition Products:</b>	Sulphur oxides and copper oxides.
<b>Conditions to Avoid:</b>	Moisture and heat. Releases water of crystallisation when heated.
<b>Materials to Avoid:</b>	Avoid contact with strong acids. Incompatible with finely powdered metals, hydrazine, hydroxylamine, magnesium, nitro methane, steel and air.

## Section 11: TOXICOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	6.1D, 6.5B, 6.7B, 6.8B, 6.9B, 8.3A										
<b>Ingestion:</b>	<p>No LD50 data available for the product however for:</p> <table><tr><td><b>Sodium Selenate</b></td><td>Oral LD50 (rat) 25 mg/kg</td></tr><tr><td><b>Cobalt Sulphate</b></td><td>Oral LD50 (rat) 582 mg/kg</td></tr><tr><td><b>Zinc Sulphate Monohydrate</b></td><td>Oral LD50 (rat) 1,710 mg/kg</td></tr><tr><td><b>Sodium Chloride</b></td><td>Oral LD50 (rat) 3,000 mg/kg</td></tr><tr><td><b>EDDI</b></td><td>Oral LD50 (mouse) 1,620 mg/kg</td></tr></table> <p>Ingestion of large quantities may lead to vomiting, abdominal pain, dizziness, convulsions, shock, coma, and possible death. Repeated ingestion of excessive amounts of Sodium Chloride may cause disturbance of body electrolyte and fluid balance.</p>	<b>Sodium Selenate</b>	Oral LD50 (rat) 25 mg/kg	<b>Cobalt Sulphate</b>	Oral LD50 (rat) 582 mg/kg	<b>Zinc Sulphate Monohydrate</b>	Oral LD50 (rat) 1,710 mg/kg	<b>Sodium Chloride</b>	Oral LD50 (rat) 3,000 mg/kg	<b>EDDI</b>	Oral LD50 (mouse) 1,620 mg/kg
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<b>Inhalation:</b>	Irritant. May cause coughing, shortness of breath, nausea. Risk of sensitisation and dermatitis.										
<b>Skin:</b>	Irritant. May cause dermatitis. Risk of sensitisation.										
<b>Eye:</b>	Corrosive. Risk of serious damage to eyes.										
<b>Chronic Effects:</b>	May be harmful to the cardiovascular, alimentary, hepatic and renal systems										
<b>Reproductive Toxicity:</b>	May damage fertility or the unborn child										
<b>Mutagenicity:</b>	Mutagenic										
<b>Carcinogenicity:</b>	Confirmed animal carcinogen (cobalt)										

## Section 12: ECOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	9.1A, 9.2C, 9.3C
<b>Ecotoxicity:</b>	Very toxic to aquatic organisms Harmful to soil environment and terrestrial vertebrates
<b>Bioaccumulation:</b>	Bioaccumulation unlikely to occur

## Section 13: DISPOSAL INFORMATION

<b>Product Disposal:</b>	Dispose of product only by using according to label or at an approved landfill. Recycle where possible. Do not contaminate bodies of water with chemical or empty container.
<b>Container Disposal:</b>	Burn container in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise bury in an approved landfill. Do not use container for any other purpose.

## Section 14: TRANSPORT INFORMATION

**Transport Information:** It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

### RAIL/ROAD; SEA (IMDG Code); AIR (ICAO/IATA)

<b>UN Number:</b>	3077
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc sulphate monohydrate)
<b>DG Class:</b>	9
<b>Subsidiary Class:</b>	None
<b>Packing Group:</b>	III
<b>Marine Pollutant:</b>	Yes
<b>MTQ (non-commercial):</b>	1,000 kg
<b>HAZCHEM Code:</b>	2Z
<b>IERG Number:</b>	47

**Other information:** Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum allowable transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation.

## Section 15: REGULATORY INFORMATION

<b>ACVM:</b>	Exempt from Registration under the ACVM Act 1997
<b>EPA:</b>	Approved pursuant to the HSNO Act 1996, Approval number: HSR002521 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.

## Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown on page 1 and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.