

SECTION 1: Substance identification and supplier

Product name: Dairy Cows Minerals

Product code: DCM

Recommended use: A water soluble multi-mineral supplement for dairy cows.

Company I.D:

Livestock Supplies NZ Ltd
6 Oreti Street
P.O. Box 123
Gore 9740

Contact number: (03) 2085257

Emergency contact: NZ National Poisons Centre (24 Hours) 0800 764 766 (0800 POISON)

Transport Emergency: 111 - Advise operator what service required - Fire, Ambulance, Police

SECTION 2: Hazard identification



Signal Word:

Danger

GHS Classification:

Acute Toxicity (Oral) – Category 4
Skin Corrosion/Irritation – Category 2
Serious Eye Damage/Irritation – Category 1
Respiratory Sensitisation – Category 1
Skin Sensitisation – Category 1
Carcinogenicity – Category 2
Reproductive Toxicity – Category 2
Specific Target Organ Toxicity – Category 2 (Repeated)
Aquatic Toxicity (Chronic) – Category 1
Hazardous to Soil Environment
Hazardous to Terrestrial Vertebrates

Classified as hazardous according to the criteria of the 'EPA- Hazardous Substances (Hazard Classification) Notice 2020'.

Animal Nutritional and Animal Care Products Group Standard 2017 – HSR002521

**Hazard Statements:**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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	Toxic to aquatic life with long lasting effects.
H423	Harmful to the soil environment
H433	Harmful 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.
P261	Avoid breathing dust during handling.
P264	Wash face and hands well with soap and water 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, clothing and eye 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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P304+P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned. Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.



P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see First Aid instruction on this label).
P330	Rinse mouth
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P342+P311	If experiencing respiratory symptoms. Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before re-use.
P363	Wash contaminated clothing before re-use.
P391	Collect spillage.

Storage Statements:

P405	Store locked up.
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Disposal Statements:

P501	Disposal of contents/container should be made in accordance with applicable regional, national and local laws and regulations.
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SECTION 3: Composition information

Ingredient:	CAS Number:	Content (%w/w):
Salt (sodium chloride)	7647-14-5	30-60
Zinc Sulphate Monohydrate	7446-19-7	30-60
Copper Sulphate Pentahydrate	7758-99-8	10-30
Cobalt Sulphate Heptahydrate	10026-24-1	< 5
Manganese Sulphate Monohydrate	10034-96-5	<5
Disodium Octaborate Tetrahydrate	12280-03-4	<5

SECTION 4: First aid measures

First Aid Measures:

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

Inhalation:

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.

Ingestion:

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.

**Skin:**

Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.

Eye:

Flush with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses if easy to do so and continue rinsing. Seek medical assistance immediately.

Advice to Doctor:

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: Firefighting measures

Extinguishing Media:

Use water spray or fog.

Combustion Products:

Decomposes on heating emitting toxic fumes.

Protective Equipment:

Breathing apparatus plus full body protective clothing.

SECTION 6: Accidental release measures

Spills and Disposal:

Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill by blocking drains, scoop up bulk product for reuse if possible, wash area with water to remove remaining powder and collect washings, place collected powder and washings in a sealable waste container for later disposal. Dispose of waste safely in an approved landfill.

Protective Clothing:

For appropriate personal protective equipment see section 8.

Environmental Precaution:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

SECTION 7: Handling and storage

Handling:

Keep out of reach of children. Avoid contact with skin, eyes and inhalation of dust. Use personal protective equipment as required. Eating, drinking, and smoking in work areas is prohibited.

Storage:

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 an emergency response plans. For full details refer to NZS 8409.



SECTION 8: Exposure control/personal protection

Workplace exposure standards

The following exposure standards have been established by Worksafe New Zealand.

Material	Type	mg/m ³
Particulates not otherwise classified	TWA	3
Copper fume, Dust and mists as Cu	TWA	1
Manganese fume, dust and compounds and Mn	TWA	0.02

Engineering Controls:

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.

Protective Equipment:

Wear overalls, full face shield (complying with AS/NZS 1336:1997), elbow-length impervious gloves (complying with AS/NZS 2121.2:1998 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. Wash contaminated clothing and other protective equipment before storage or re-use.

SECTION 9: Physical and chemical properties

Appearance:	White powder	Vapour pressure:	N/A
Odour:	Mild	Vapour density:	N/A
pH:	N/A	Specific gravity (g/mL @ 25°C):	1.95
Melting point:	N/A	Solubility (g/L @ room temp.):	200
Boiling point:	N/A	Partition coefficient:	N/A
Flash point:	N/A	Auto-ignition temp:	N/A
Flammability:	N/A	Decomposition temp:	N/A
Explosive limits:	N/A	Kinematic viscosity:	N/A

SECTION 10: Stability and reactivity

Stability:

Stable under normal conditions. When stored appropriately this product should show no significant degradation.

Incompatible materials:

Avoid contact with strong acids.

Hazardous decomposition products:

Metal oxides, oxides of carbon and sulphur.

Hazardous Polymerisation:

Hazardous polymerisation is not likely to occur



SECTION 11: Toxological information

Acute toxicity (oral):

Zinc Sulphate Monohydrate	LD50(mouse) 1891mg/kg
Copper Sulphate Pentahydrate	LD50(rat) 960mg/kg
Manganese Sulphate Monohydrate	LD50(rat) 782mg/kg
Cobalt Sulphate Heptahydrate	LD50(sheep) 330mg/kg

Acute toxicity (inhalation):

Not classified

Skin corrosion/irritation:

Irritant. May cause mild dermatitis.

Serious eye damage/irritation:

Causes severe damage to ocular tissues.

Respiratory/Skin sensitization:

Risk of sensitisation.

Germ cell mutagenicity:

Not classified.

Carcinogenicity:

Suspected carcinogen.

Reproductive toxicity:

Suspected reproductive toxicant.

STOT repeated exposure:

May be harmful to the cardiovascular, hepatic and renal systems.

Aspiration hazard:

Not classified.

SECTION 12: Ecological information

Summary:

No specific data is available for this product.

Aquatic toxicity:

This product is ecotoxic in the aquatic environment based on the mixture rules for the composition of this product.

Bioaccumulation:

No data available.

Degradability:

No data available.

**Soil toxicity:**

This product is harmful in the soil environment based on the mixture rules for the composition of this product.

Terrestrial vertebrate toxicity:

This product is harmful to terrestrial vertebrates based on the mixture rules for the composition of this product.

Terrestrial invertebrate toxicity:

No data available.

SECTION 13: Disposal information

Special precautions:

Minimise creation of dust during disposal of containers. Do not discharge contents or rinse waters to the environment. Rinse waters must be collected and processed by an approved service provider.

Methods of disposal:

Dispose of product and containers only at an approved landfill. Recycle containers where possible.

SECTION 14: Transport information

Road and Rail Transport:

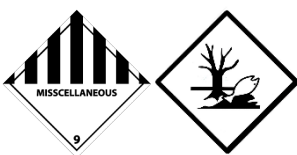
Classified as dangerous goods by the criteria of NZS 5433:2012 – Transport of Dangerous Goods on Land.

Sea Transport:

Classified as dangerous goods under the IMDG transport regulations.

Air Transport:

Classified as dangerous goods under the IATA/ICAO transport regulations.

**UN Number:**

3077

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Copper Sulphate Pentahydrate, Zinc Sulphate Monohydrate) MARINE POLLUTANT

DG Class:

9

Subsidiary Class:

None

**Packing Group:**

III

Marine Pollutant:

Yes

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

NZ EPA Approval Code:

Animal Nutritional and Animal Care Products Group Standard (2017) – HSR002521

ACVM:

Exempt from Registration under the ACVM Act 1997

NZIoC:

All components are listed on the New Zealand Inventory of Chemicals

Trigger quantities for this substance:

Certified Handler - Not required

Location Certificate - Not required

Tracking Trigger Quantities - Not required

Signage Trigger Quantities - 100kg (Aquatic Toxicity)

Emergency Response Plan Trigger Quantities - 100kg (Aquatic Toxicity)

SECTION 16: Other information

SDS Version Number:

1.3

SDS Effective Date:

22 July 2021

SDS Review Date:

22 July 2026

SDS Regulation:

The content and format of this SDS is in accordance with 'Hazardous Substances (Safety Data Sheets) Notice 2017' – EPA Consolidation 30 April 2021.

Abbreviations:

ACVM - Agricultural Compounds and Veterinary Medicines

AS/NZS - Joint Australian-New Zealand standard



CAS - Chemical Abstracts Service (Registry Number)

EPA - Environmental Protection Authority

GHS - Globally Harmonised System

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods Code

LD50 - Lethal Dose in 50% of the population

NZIoC - New Zealand Inventory of Chemicals

NZS - New Zealand Standard

SDS - Safety Data Sheet

STOT - Specific Target Organ Systemic Toxicity

TWA - Time Weighted Average

Disclaimer:

This document is compiled based on current knowledge as provided by Livestock Supplies Ltd or information obtained from third party sources relating to safety and handling precautions for this product.

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