

ZINC CHELATE

1 – PRODUCT AND COMPANY INFORMATION

PRODUCT USE: Liquid trace mineral supplement for dairy cows.

SUPPLIER: Deosan Manufacturing Ltd

20 Seddon Street

WAHAROA

NEW ZEALAND

Telephone: 0800 336 726 (0800 DEOSAN) / +64 7 888 5628

Email: info@deosan.co.nz

24 Hour Emergency Contact: 0800 243 622 (CHEMCALL)

International Emergency Number: +64 4 917 9888

New Zealand Poison Centre: 0800 POISON (0800 764 766)

NZ Emergency Services: 111

2 – HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE.

Not classified as hazardous according to criteria in the New Zealand Hazardous Substances and New Organisms legislation and GHS 7th Edition.

HAZARD LABELLING: N/A

GHS CLASSIFICATION

- None

HSNO Classification: None

GHS HAZARD STATEMENTS

Physical Hazards: None

Health Hazards: None

Environmental Hazards: None.

PREVENTION

- Wear eye protection.
- Avoid release to the environment.

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RESPONSE

- If medical advice is needed, have product container or label at hand.
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Drink plenty of water.
- **IF ON SKIN (or hair):** Non-hazardous. Remove all contaminated clothing. Rinse skin with running water.
- **IF INHALED:** Non-Hazardous.
- **IF IN EYES:** Contact with eyes may cause irritation. Immediately flush eyes with flowing water including under the eyelids for at several minutes. If irritation persists, seek medical assistance.
- Immediately call a POISON CENTER or doctor/physician if unwell.
- Wash contaminated clothing before reuse.

STORAGE

- Store only in original container.
- Store locked up.

DISPOSAL

Dispose of contents and packaging in accordance with relevant legislation. See Section 13 of this SDS Document for more information.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:

| Components | CAS- No. | Concentration [%] |
|--------------|------------|-------------------|
| Zinc Chelate | 14025-21-9 | >35 |

SYNONYMS: None

4 - FIRST AID MEASURES

IN AN EMERGENCY CALL AN AMBULANCE (111).

Primary routes of exposure by contact with skin or eyes.

MAIN SYMPTOMS CAUSED BY EXPOSURE

Exposure may cause allergic reactions (typically a skin rash) in some people. More severe reactions are very rare but will require urgent medical attention should they occur.

SWALLOWED

Do not induce vomiting. Drink a large glass of water.

EYE CONTACT

May cause irritation or discomfort.

Immediately hold eyelids apart and flush the eye continuously with running water.

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Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

If eye irritation persists, seek medical advice/attention. Continue rinsing until advised to stop by the Poison Centre or a doctor.

Removal of contact lenses after an eye injury should be undertaken by skilled personnel.

SKIN CONTACT

Not normally hazardous. If irritation or rash occurs, remove contaminated clothing and thoroughly wash skin and hair with running water and soap.

Seek medical attention if irritation persists.

INHALATION

Non-Hazardous. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

NOTES TO PHYSICIAN

Treat symptomatically based on individual reactions of patient and judgement of doctor.

5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions: water, water spray, dry powder, foam, carbon dioxide (CO₂).

FIRE FIGHTING

Alert Fire Brigade and tell them location and nature of hazard. Clear fire area of all non-emergency personnel.

Prevent, by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding area.

Equipment should be thoroughly decontaminated after use.

SPECIFIC HAZARDS

Non-Combustible. Non-reactive.

FIRE INCOMPATIBILITY

None

DECOMPOSITION

N/A.

PERSONAL PROTECTIVE EQUIPMENT

Fire-fighters should wear full protective clothing suitable for chemical hazards with self-contained breathing apparatus. The substance must be contained and prevented from entering drains and water courses in all circumstances.

HAZCHEM CODE

None

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6 – ACCIDENTAL RELEASE MEASURES

Wear protective gloves, clothing and eye/face protection.

Keep unnecessary people away from the hazardous area.

MINOR SPILLS

Clean up all spills immediately.

Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labelled container for waste disposal.

MAJOR SPILLS

Prevent, by any means available, spillage from entering drains or water course.

Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling.

Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice - See Section 8 of the SDS

7 – HANDLING AND STORAGE

PROCEDURE FOR HANDLING

Operators should be trained in procedures for safe use of this material.

Contact lenses should not be worn when working with this chemical.

Wear eye protection. Use appropriate personal protective equipment. See section 8 of the SDS.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use. Avoid physical damage to containers.

Use good occupational work practice. Always wash hands with soap and water after handling.

SUITABLE PACKAGING

The UN Packaging specification number as well as the UN packaging Logo is to be printed on the containers. Store product in original packaging.

Corrosive resistant Plastic (HDPE) drum

Check all packaging is clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

None.

STORAGE REQUIREMENTS

Store locked up.

Store in original containers.

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Keep containers securely sealed to protect from moisture contamination. Store in a cool, dry, well-ventilated area.

Store away from foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

No exposure limits set by WorkSafe New Zealand.

ENGINEERING CONTROLS

No specific engineering controls are needed.

VENTILATION SYSTEM

No specific ventilation systems are required.

PERSONAL PROTECTION EQUIPMENT (PPE)

When handling product always wear PVC protective gloves and eye protection. Protective clothing, Chemical/waterproof boots and chemical resistant apron also recommended.

PERSONAL RESPIRATORS

Not required

SKIN PROTECTION

Wear impervious protective clothing, including chemical resistant boots, gloves, apron or overalls as appropriate to prevent skin contact. Refer to AS/NZS 2161.1:2016 Occupational Protective Gloves – Selection, use and maintenance; AS/NZS 2210.1:2010 for Safety footwear; AS/NZS 4501.1:2008 Occupational protective clothing – Guidelines on the selection, use, care and maintenance of protective clothing.

EYE PROTECTION

Use approved chemical safety goggles and a full-face shield. Refer to Personal eye protection Part 1: Eye and face protectors for occupational applications, Australian/New Zealand Standard: AS/NZS 1337.1:2010. Ensure that there is ready access to eye wash unit.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Colourless Liquid.

PHYSICAL PROPERTIES

| PROPERTY | VALUE |
|----------------------------------|---------------|
| State: | Liquid |
| Odour: | None |
| Molecular Weight: | Not available |
| Melting Range (°C): | ~0°C |
| Boiling Range (°C): | ~100°C |
| Solubility in water (g/L, 20°C): | Miscible |

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| | |
|------------------------------------|----------------|
| pH: | 4.5 – 5.5 |
| Specific Gravity (g/ml): | 1.16 – 1.20 |
| Bulk Density (kg/m ³): | Not applicable |
| Volatile Component (%vol, 21°C): | Not applicable |
| Relative Vapor Density (air=1): | Not available |
| Vapour Pressure (hPa, 1175°C): | Not available |
| Autoignition Temp (°C): | Not applicable |
| Flash Point (°C): | Not applicable |
| Lower Explosive Limit (%): | Not applicable |
| Upper Explosive Limit (%): | Not applicable |
| Decomposition Temp (°C): | Not applicable |
| Viscosity (cps): | Not available |
| Evaporation Rate: | Non volatile |

10 – CHEMICAL STABILITY AND REACTIVITY

CHEMICAL STABILITY

Product is stable under normal conditions of use, storage, and temperature.

CONDITIONS TO AVOID

Avoid excessive heat, direct sunlight, moisture, high temperatures. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

INCOMPATIBLE MATERIALS

None.

HAZARDOUS DECOMPOSITION PRODUCTS

None.

HAZARDOUS REACTIONS

None

11 – TOXICOLOGICAL INFORMATION

SWALLOWED

Virtually nontoxic after a single ingestion. May cause nausea.

EYE

Prolonged eye contact may cause mild inflammation.

SKIN

Skin contact is not expected to have harmful health effects.

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INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract.

CHRONIC HEALTH EFFECTS

N/A

TOXICITY AND IRRITATION DATA

TOXICITY

Acute Oral Toxicity, Rat, LD50: Not available.

Acute Dermal Toxicity, LD50: Not available..

Acute Inhalation Toxicity, LC50: Not available.

IRRITATION

The material may be irritating to the eye, with prolonged contact causing inflammation.

Sensitisation (respiratory/contact): No evidence for skin sensitization.

Carcinogenic effects: Not classified or listed by IARC, NTP, or Cal Prop65.

Mutagenic effects: Not expected to be mutagenic.

Reproductive or developmental effects: Not expected to cause adverse reproductive effects.

Aspiration hazard: No information available.

Specific target organ toxicity: No information available.

12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Non-Hazardous.

ECOTOXICITY DATA

Fish, 24hr LC50: Not available.

Persistence and Degradability: Not available.

Mobility: Completely soluble.

DO NOT discharge into sewer or waterways.

13 – DISPOSAL INFORMATION

PRODUCT

Return unwanted product to the manufacturer for disposal or contact the Regional Council for local chemical disposal area details.

Treatment in a biological wastewater treatment system with prior approval and arrangement is also permissible providing that the substance is rendered non-hazardous and does not pose any adverse effects to human health or the environment.

Alternatively consult an approved Waste Management company for disposal options.

PACKAGING

NZ: Triple-rinse empty containers. Contact AgRecovery to arrange for pick-up or drop-off at a collection depot.

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Overseas: Triple-rinse empty containers. Dispose of containers in accordance with guidance/regulations from relevant local authorities.

Observe all label safeguards until containers are cleaned and destroyed.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 – TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

Not classified as a Dangerous Good under NZS 5433:2007 Transport of Dangerous Goods on Land.

15 – REGULATORY INFORMATION

REGULATIONS

Non-hazardous

SECTION 16 – OTHER INFORMATION

INTERPRETATION AND ABBREVIATIONS

EPA - The Environmental Protection Authority of New Zealand

HSNO - Hazardous Substances and New Organisms Act 1996

MPI - Ministry for Primary Industries

EINECS - European Inventory of Existing Commercial Chemical Substances.

ENCS - Japanese Existing and New Chemical substances.

ERPG - Emergency Response Planning Guidelines.

GHS - Globally Harmonized System of Classification and Labelling of Chemicals.

IARC - International Agency for Research on Cancer.

SOURCES OF KEY DATA USED TO COMPILE THE DATASHEET:

Manufacturer's SDS, NZ EPA, CCID

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