

Version: 07

SAFETY DATA SHEET

Issue Date: June 2025 Review Date: June 2030

# **COMBI 5 CHELATE**

#### Section 1. Identification of the material and the supplier

Product: Combi 5 Chelate

Product Use: Liquid trace mineral supplement for dairy cows.

Restriction of Use: Refer to Section 15

New Zealand Supplier: Deosan Manufacturing Ltd

Address: 20 Seddon Street

Waharoa New Zealand

Email: info@deosan.co.nz

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

24 Hour Emergency Contact: 0800 243 622 (CHEMCALL)

Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 8 April 2025

#### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Animal Nutritional and Animal Care Products - HSR002521

#### **Pictograms**





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.

<b>Prevention Code</b>	Prevention Statement
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P261	Avoid breathing fumes, vapours or spray.

P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
P405	Store locked up.

<b>Disposal Code</b>	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	CAS NUMBER.	Wt%
Copper Chelate	14025-15-1	<30
Zinc chelate	14025-21-9	<20
Aniseed mixture	8007-70-3	<1
	7647-14-5	
Iodine chelate	5700-49-2	<0.5
Cobalt Chelate	15137-09-4	<0.5
Sodium Selenate	13410-01-0	<0.5
Non-Hazardous ingredients		To 100%

# Section 4. First Aid Measures

#### Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice.

If on Skin Take off contaminated clothing and wash before reuse. Wash with plenty

of soap and water. If skin irritation or rash occurs: get medical

advice/attention.

If Swallowed Do not induce vomiting. Wash out mouth thoroughly with water. Drink

large amounts of water. Never give anything to the mouth of an

unconscious person. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

# Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Ingestion may cause organ damage. **Inhalation:** Inhalation may cause organ damage.

**Skin:** Causes skin irritation. May cause an allergic skin reaction.

**Eye:** Causes serious eye irritation. **Chronic:** Suspected of causing cancer.

# Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable
Hazards from	None known.
combustion	
products	
Suitable	In case of fire, use appropriate extinguishing media most suitable for
Extinguishing	surrounding fire conditions: water, water spray, dry powder, foam,
media	carbon dioxide (CO2).
Precautions for	Fire-fighters should wear full protective clothing suitable for chemical
firefighters and	hazards with self-contained breathing apparatus. The substance must
special protective	be contained and prevented from entering drains and water courses in
clothing	all circumstances. Alert Fire Brigade and tell them location and nature
	of hazard. Clear fire area of all non-emergency personnel.
	Equipment should be thoroughly decontaminated after use.
HAZCHEM CODE	None Allocated

#### Section 6. Accidental Release Measures

#### For emergency responders:

Wear protective equipment detailed in Section 8. Keep unnecessary people away from the hazardous area.

#### **Environmental precautions:**

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

#### Methods and material for containment and cleaning up:

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

Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services. Dispose of as per Section 13.

# Section 7. Handling and Storage

#### **Precautions for Handling:**

- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, gas, mist, vapours or spray.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing as detailed in SDS Section 8. Contact lenses should not be worn when working with this chemical.
- Operators should be trained in procedures for safe use of this material.
- When handling, DO NOT eat, drink, or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.

# **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in original containers.
- 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.
- Suitable Packaging: Corrosive resistant Plastic (HDPE) drum

# **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL Substance ppm mg/m³ ppm mg/m³

None of the components have assigned exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15<sup>TH</sup> EDITION.

## **Engineering Controls**

No data available.

# **Personal Protection Equipment**



Eyes	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.
Skin	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.
Respiratory	Recommended if spray/mist present.

# Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Blue
Odour	Aniseed
Odour Threshold	Not available
pH	5.5 - 6.5
Boiling Point	~100°C
Melting Point	~0°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Non-flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.2 – 1.3 g/ml
Water Solubility	Miscible
Partition Coefficient:	Not available
Auto-ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available

Particle Characteristics	Not available

# Section 10. Stability and Reactivity

Stability of Substance	Product is stable under normal conditions of use, storage, and temperature.
Possibility of hazardous reactions	None known.
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 known.
Hazardous Decomposition Products	None known.

# Section 11 Toxicological Information

#### **Acute Effects:**

Swallowed	This product is not classified as acutely toxic.		
Dermal	This product is not classified as acutely toxic.		
Inhalation	This product is not classified as acutely toxic.		
Eye	Causes serious eye irritation. Prolonged contact causing		
	inflammation.		
Skin	Causes skin irritation. May cause an allergic skin reaction.		

# **Chronic Effects:**

Carcinogenicity	Suspected of causing cancer.			
Reproductive	Suspected of damaging fertility or the unborn child.			
Toxicity				
Germ Cell	This product is not classified as mutagenic.			
Mutagenicity				
Aspiration	This product is not classified as Asp Tox.			
STOT/SE	This product is not classified as STOT SE.			
STOT/RE	May cause damage to organs through prolonged or repeated			
	exposure.			

# **Individual component information:**

**Acute Toxicity:** 

Acute Toxicity.			
<b>Chemical Name</b>	Oral - LD50	Dermal - LD50	Inhalation - LC50
Zinc Chelate	1750 mg/kg (rat)	-	-
(14025-21-9)			
Sodium Selenate	25 mg/kg	-	0.05 mg/L
(13410-01-0)			(dust/mist)

# **Section 12. Ecotoxicological Information**

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility	Completely soluble.
Other adverse effects	No data available

# **Section 13. Disposal Considerations**

#### **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.

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.



Precautions or methods to avoid: None known.

#### Section 14 Transport Information

# This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021

#### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Animal Nutritional and Animal Care Products - HSR002521

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

# **Section 16** Other Information

Glossary	r
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Cat Category

EC50Median effective concentration.EELEnvironmental Exposure Limit.EPAEnvironmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

 $LC_{50}$  Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

#### References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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