

SAFETY DATA SHEET

Date of Issue: 1st July, 2024

Issue Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: IntenSE Selenium 5mg/mL

OTHER NAMES: -

USE: Selenium for animal health.

COMPANY IDENTIFICATION : Bell-Booth Limited
15 Tiki Place
Palmerston North
New Zealand
tel +64 6 358 9052 fax + 64 6 358 9051
www.bell-booth.co.nz

Emergency Telephone Numbers: 0800 80 90 91
NATIONAL POISON CENTRE 0800 764 766
POLICE, FIRE, AMBULANCE Dial 111

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to the NZ Hazardous Substance (Classification) Notice 2017.

HSNO Approval: HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020.

HSNO Classifications: Mutagenicity Category 2, Specific target organ toxicity (repeated exposure) Category 2.

Pictograms:



Signal word: WARNING

Hazard Statements:

H341 Suspected of causing genetic effects.

H373 May cause damage to organs through prolonged or repeated exposure.

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 mist/vapours/spray.

P281 Use personal protective equipment as required.

Response Statements:

P314 Get medical advice/attention you feel unwell.

P308 + P313 If exposed or concerned: Get medical advice.

Storage Statements:

P405 Store locked up.

Disposal Statements:

P501 Dispose of product and container in compliance with local regulations.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Common name	CAS. No	% w/w
Sodium selenate	13410-01-0	1.2
Other ingredients*	Proprietary	Balance

* do not affect classification of mixture

4. FIRST AID MEASURES

If medical advice is needed, have product container or label at hand. For medical advice contact National Poisons Centre (tel. 0800 764 766) or a doctor. If exposed or concerned, get medical advice

EYES: Hold eyes open and carefully rinse eyes with running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

SKIN: Wash affected area with soap and water. Get medical advice if irritation persists.

INGESTION: Rinse mouth. Do not induce vomiting. Get medical advice if person feel unwell.

INHALATION: If breathing is difficult, remove to fresh air, keep warm and at rest until recovered. If concerned or experiencing respiratory problems, call a Poison Centre or doctor.

FIRST AID FACILITIES: Eye wash and hand washing facilities.

ADVICE TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: Nonflammable.

FLAMMABLE LIMITS:LFL: Not determined UFL: Not determined

EXTINGUISHING MEDIA: Use a water spray, dry agent, carbon dioxide or foam. Water spray or fog can be used to cool containers or on surrounding materials.

FIRE & EXPLOSION HAZARDS: Will emit toxic compounds (oxide of selenium and other compounds) if heated to decomposition.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and personal protection clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Contain spill. Prevent from entering drains or other waterways. Wear protective clothing, gloves and eye protection. Recover protect and any contaminated materials to containers that can be sealed. If product cannot be re-used, dispose of to landfill.

DISPOSAL: Use product as per label or bury in landfill.

7. HANDLING AND STORAGE

HANDLING: Read label before use. Observe good personal hygiene. Wear personal protective equipment. Do not breathe mist, vapour or spray. Wash hands after use and before rest or meal breaks. Launder contaminated protective clothing before re-use.

STORAGE: **Keep out of reach of children.** Store locked up in dry, well ventilated area and away from incompatible materials and foodstuffs. Ensure containers labelled, protect from physical damage and keep closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: Workplace Exposure Standards (WES) have not been set for this product (Workplace Exposure Standard and Biological Exposure Indices, edition 14, November 2023). However, the following has been set for elemental metal compound.

Selenium (Se) CAS No 7782-49-2)

WES-TWA 0.02 mg/m³ (skin)

ENGINEERING CONTROLS: Not required when used outdoors or in well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Face/Eye protection: Wear safety goggles, or glasses with side shields (AS/NZS1337) if risk of splashes.

Skin protection: Wear gloves, e.g. rubber gloves (AS/NZS 2161). Wear overalls to protect clothes and closed in footwear.

Respiratory protection: If risk of inhaling vapours, mist or spray, wear a suitable respiratory device compliant with AS/NZ 1715.

Other: Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odor:	Odourless
Odor threshold:	Not available
pH:	8.0
Melting point (°C):	Not available
Boiling point (°C):	100
Flash point (°C):	Non flammable
Flammability (solid, gas):	Not applicable
Upper/lower flammability:	Not applicable
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.1
Solubility:	Soluble in water
Partition Coefficient: -octanol/water:	Not available.
Autoignition temperature (°C):	Not known
Decomposition temperature:	Not known
Kinematic viscosity:	Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions (temperatures, pressure) of storage and use.

CONDITIONS TO AVOID: High temperatures and incompatible substances.

MATERIALS TO AVOID: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxide of selenium and other unspecified compounds.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

Acute toxicity: May be harmful if swallowed. Ingestion may cause nausea, abdominal pain, diarrhea, vomiting, pallor and coated tongue.

Aspiration hazard: No information available to indicate aspiration hazard.

Respiratory irritation: May be irritating to nose, throat and respiratory tract if inhaled.

Skin corrosion/irritation: May cause pain under fingernails if absorbed/contact on tips of fingers.

Serious eye damage/irritation: May slightly irritate the eyes.

Respiratory or skin sensitization: Potential for possible dermatitis effects.

Germ cell mutagenicity: Sodium selenate identified as may cause genetic effects.

Concentration in mixture determines the classification of suspected of causing genetic defects.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific organ toxicity: Sodium selenate identified as causes damage to organs through prolonged or repeated exposure. Concentration in mixture determines the classification of may cause damage to organs (liver) through prolonged or repeated exposure.

Narcotic effects: No information available.

Other information:

Prolonged, low-level exposure (approximately 5 mg/day as Se in humans) may result in the following chronic effects; bronchial irritation, symptoms of asphyxiation, gastro-intestinal distress, nasopharyngeal irritation, brittle hair with nonpigmented replacement hair, brittle nails with spots and longitudinal streaks on the surface. Damaged nails are replaced by new, thickened nails with roughened surfaces. In more severe cases, fluid may effuse from around the nail bed.

Skin lesions, mainly on the hands, feet, forearms, neck and outer side of the legs may occur.

The affected skin is red and swollen, followed by blisters.

In all cases, over-exposure will produce a characteristic "garlic" odour on the breath and sweat.

Toxicity data:

Calculated mixture LD₅₀ 2016 mg/kg b.w.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Aquatic environment: May be harmful to aquatic life with long lasting effects.

Soil environment: May be harmful to the soil environment.

Terrestrial vertebrates: Not classified.

Terrestrial invertebrates: Not classified.

Ecotoxicological data on components:

Sodium selenate	Fathead minnow, LC ₅₀ (96h) 0.69 mg/L
	<i>Daphnia magna</i> EC ₅₀ (48h) 0.39 mg/L

IntenSE Selenium 5mg/mL

Gammarus pseudolimnaeus (scud) EC₅₀ (48h) 0.083 mg/L
Selenastrum capricornutum EC₅₀ (72h) 0.2 mg/L
Ankestrodesmus facatus EC₅₀ (14d) 0.033 mg/L
Chlorella vulgaris, growth inhibition EC₅₀ (7d) 0.033 mg/L

PERSISTENCE AND DEGRADATION: Selenium will be persistent in environment.

POTENTIAL TO BE BIOACCUMULATIVE: No information available to indicate degree of any bioaccumulative effects.

MOBILITY IN SOIL: Product is soluble in water.

OTHER ADVERSE EFFECTS: No specific information available.

13. DISPOSAL CONSIDERATIONS

Product: Use product as per label directions. Dispose of waste (unwanted product or residues) to landfill in accordance with Regional Authority or local council bylaws.

Packaging: Triple rinse empty container and use washings for makeup water in spray tank. Dispose of empty rinsed containers by crushing and burying in landfill. Do not use for storage of other products.

Special Precautions: No specific information available.

Unsuitable methods: Do not dispose of into drains, sewers or other waterways.

14. TRANSPORT REGULATIONS

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	Not regulated	UN No.	Not regulated	UN No.	Not regulated
Proper Shipping Name		Proper Shipping Name		Proper Shipping Name	
DG Class		DG Class		DG Class	
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group		Pack Group		Pack Group	
Hazchem		Hazchem			

Dangerous Goods Segregation

This product is not classified as a Dangerous Good.

Please consult the Land Transport Rule: Dangerous Goods 2010, and NZS 5433:2020 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION

Country: New Zealand

Inventory: Components listed.

EPA New Zealand HSNO Approval Code: HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020.

Safety Data Sheet:

Any quantity

Restricted to workplace only:

No

Quantity that requires management in accordance with HSW HS

-

Regulations:

Quantity for secondary containment and emergency response plan:

-

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Quantity for signage: -

For information on Controls refer to www.epa.govt.nz and www.worksafe.govt.nz.

16. OTHER INFORMATION

Date of Issue: 1st July 2024
Reasons for Issue: Review product classifications and 5-year review.
Replaces: SDS dated 17th June 2019.

Abbreviations:

AS	Australian Standard
bw	body weight
EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
GHS	Global Harmonized System
HS	Hazardous Substance
HSNO	Hazardous Substances and New Organisms
LD ₅₀	Dose lethal to 50% of population
NOAEL	No observed adverse effect level
NZS	New Zealand Standard
SDS	Safety Data Sheet
TWA	Time weighted average
WES	Workplace Exposure Standard

References: Supplier Safety Data Sheets
CCID; www.epa.govt.nz

Other information:

Before using any product, read its label carefully and ensure that you understand its contents. This information is, to the best of our knowledge and belief, accurate and reliable at the date of publication. The information relates only to the specific material designated and may not be valid for such material if it is used in combination with any other material(s). Bell-Booth Limited disclaims any liability for loss or damage suffered from the use of this information. This does not affect your statutory rights. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for his/her own particular use.

END of SAFETY DATA SHEET