



# SAFETY DATA SHEET

Date of Issue: 17<sup>th</sup> June, 2019

Issue Number: 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** IntenSE Selenium 2.5mg/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](http://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 2017.

**HSNO Classifications:** 6.1E (oral), 9.1C, 9.2C

**Pictograms:** Not required

**Signal word:** WARNING

**Hazard Statements:**

H303 May be harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

H423 Harmful in the soil environment.

**Prevention Statements:**

P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.

**Response Statements:**

P101 If medical advice is needed, have product container or label at hand.

P312 Call a POISON CENTRE or doctor if you feel unwell.

**Storage Statements:**

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**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	0.6
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

**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. Have person drink two glasses of water. 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 or vapour. 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 securely 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 components in this product. However, the following have been set for similar substances.

Selenium and compounds (as Se) WES-TWA 0.1 mg/m<sup>3</sup>

**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 mist, wear a suitable respiratory device compliant with AS/NZ 1715.

**Other:** Not required

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Yellow liquid
<b>Odor:</b>	Odourless
<b>Odor threshold:</b>	Not available
<b>pH:</b>	8.0
<b>Melting point (°C):</b>	Not available
<b>Boiling point (°C):</b>	100
<b>Flash point (°C):</b>	Non flammable
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/lower flammability:</b>	Not applicable
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.0
<b>Solubility:</b>	Soluble in water
<b>Partition Coefficient: -octanol/water:</b>	Not available.
<b>Autoignition temperature (°C):</b>	Not known
<b>Decomposition temperature:</b>	Not known
<b>Kinematic viscosity:</b>	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, pallour and coated tongue.

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**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 irritate the eyes.

**Respiratory or skin sensitization:** Potential for possible dermatitis effects.

**Germ cell mutagenicity:** Sodium selenate identified as causes genetic effects but present as concentration too low to trigger classification of mixture.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific organ toxicity:** Sodium selenate identified as causes damage to organs through prolonged or repeated exposure but present as concentration too low to trigger classification of mixture.

**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 LD<sub>50</sub> 4032 mg/kg b.w.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

**Aquatic environment:** Harmful to aquatic life with long lasting effects.

**Soil environment:** Harmful to the soil environment.

**Terrestrial vertebrates:** Not classified.

**Terrestrial invertebrates:** Not classified.

**Ecotoxicological data on components:**

Sodium selenate	Fathead minnow, LC <sub>50</sub> (96h) 0.69 mg/L
	<i>Daphnia magna</i> EC <sub>50</sub> (48h) 0.39 mg/L
	<i>Gammarus pseudolimnaeus</i> (scud) EC <sub>50</sub> (48h) 0.083 mg/L
	<i>Selenastrum capricornutum</i> EC <sub>50</sub> (72h) 0.2 mg/L
	<i>Ankestrodesmus facatus</i> EC <sub>50</sub> (14d) 0.033 mg/L
	<i>Chlorella vulgaris</i> , growth inhibition EC <sub>50</sub> (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.

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**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 2005, and NZS 5433:2012 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 2017.

For information on Controls refer to [www.epa.govt.nz](http://www.epa.govt.nz) and [www.worksafe.govt.nz](http://www.worksafe.govt.nz).

### 16. OTHER INFORMATION

**Date of Issue:** 17<sup>th</sup> June 2019

**Reasons for Issue:** Review product classifications and update of SDS format.

**Replaces:** SDS dated 23<sup>rd</sup> April 2014.

#### **Abbreviations:**

EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
LD <sub>50</sub>	Dose lethal to 50% of population
NZS	New Zealand Standard
WES	Workplace Exposure Standard

**References:** Supplier Safety Data Sheets  
CCID; [www.epa.govt.nz](http://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

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END of SAFETY DATA SHEET