

CobaltSure 2000 + SE

B12 Injection + Selenium

For the treatment and control of cobalt and selenium deficiency in sheep and cattle

Section 1. Identification

Product name: CobaltSure 2000 B12 Injection + Selenium

ACVM Registration Number: 12171

Recommended use: For the treatment and control of cobalt deficiency in sheep and cattle

Supplier: Biocell Corporation Limited

Address: 19 Laureston Ave, Manakau, Auckland

Contact number: +64 9 270 0755

Emergency contact number: 0800 764 766

National Poisons Centre: 0800 764 766 (0800 POISON)

Document version and date: 16 June 2025

Section 2. Hazards Identification

HSNO Approval Number: HSR100758

Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020.

GHS Classification: Hazardous to the aquatic environment chronic - Category 3.

Hazard Code	Prevention Statement
H412	Harmful to aquatic life with long lasting effects

Prevention Code	Prevention Statement
P103	Read label before use
P273	Avoid release to the environment

Disposal Code	Prevention Statement
P501	Dispose of contents and containers as specified on the registered label. Preferably dispose of product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility

Section 3. Composition/Information on Ingredients

Product ingredients	CAS Number	Concentration
Hydroxocobalamin (Vitamin B12)	22465-48-1	2 g/L
Selenium (as sodium selenate)	10102-23-5	4 g/L

Remaining ingredients are commercially sensitive and cannot be disclosed in a public document.

Section 4. First Aid Measures

General Information:

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. Observe good work practices and avoid skin and eye contact. Wash hands and exposed skin before meals and after use.

Do not eat or drink while using. Launder protective clothing separately from other clothing, and before each re-use.

Routes of Exposure:

Inhalation

Remove to fresh air

Skin contact

If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water

Eye contact

If splashed in eyes wash out immediately with water

Ingestion

If swallowed seek medical attention immediately. Have product container to hand. Rinse mouth out. **Do not** induce vomiting

Workplace facilities

No special facilities required

Notes for medical personnel

Apply symptomatic therapy (no specific antidote)

Section 5. Fire Fighting Measures

Fire and explosion hazards	Non-flammable, Non-combustible, Non-explosive. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water may form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures
Extinguishing media	In case of fire, use carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam
Fire fighting	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection
Flash point	No data available
Auto ignition temperature	No data available
Flammability class	No data available



Section 6. Accidental Release Measures

Personal precautions	Wear suitable protective clothing. Avoid contact with skin, eyes and clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices
Environmental precautions	Absorb spills with inert material (e.g. sand or vermiculite), and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Prevent contamination of water courses or sewers. Dispose of waste safely
Methods and materials for containment and cleaning up	If greater than 1000L is stored in one location, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm-water drains. (If this occurs contact your regional council immediately)

Section 7. Handling and Storage

Handling	Wash hands and exposed skin thoroughly after handling. Do not breathe mist
Certified handler	No
Tracking	No
Storage	Store below 25°C. Protect from light. Store in original container. Do not store with food. Keep out of reach of children

Section 8. Exposure Control/Personal Protection

Occupational exposure limits	Sodium selenite 0.1 mg/m3 (WES-TWA)
Engineering controls	Prevent exposure by using personal protective equipment and work practices that prevent skin and eye contact
Protective material types	We suggest that protective clothing be made from rubber, PVC



Section 9. Physical and Chemical Properties

Appearance	Clear red solution
Odour	No data available
Odour threshold	No data available
pH	4.5–5.5
Melting point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	Not applicable
Vapour density	No data available
Relative density	0.990–1.050 g/mL
Solubility (ies)	Soluble in water
Partition coefficient	No data available
n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available

Section 10. Stability and Reactivity

Reactivity	Stable under normal conditions of use and storage
Conditions to avoid	No specific conditions to avoid
Incompatibilities	No specific materials to avoid
Hazardous decomposition products	Hazardous decomposition products are expected when heated to decomposition temperatures. Use appropriate PPE when fighting fires

Section 11. Toxicological Information

Acute toxicity: Sodium selenate

Acute Tox.2 (oral)

H300: Fatal if swallowed

R PHRASE: R 25 [Company Data]

Acute Tox.2 (inhalation)

H330: Fatal if inhaled

R PHRASE: R 23 [Company Data]

Refer to EPA website

Skin corrosion/irritation	No data available
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Serious eye damage/irritation: Sodium selenate

Eye Irrit.2

H319: Causes serious eye irritation

CROSS REFERENCE: Cas #13410-01-0

SPECIES: -

RESULT: Severe eye irritation may be seen with selenium dust exposure

Refer to EPA website

Respiratory or skin sensitisation	No data available
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Germ cell mutagenicity: Sodium selenate

Muta.2

H341: Suspected of causing genetic defects

CROSS REFERENCE: Cas #13410-01-0

There remains some concern that human exposure to selenium compounds may be associated with a mutagenic risk

Refer to EPA website

Carcinogenicity	No data available
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Reproductive toxicity	No data available
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Specific target organ toxicity – single exposure	No data available
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Specific target organ toxicity – repeated exposure: Sodium selenate

STOT Rep.Exp.2

H373: May cause damage to organs through prolonged or repeated oral exposure

R PHRASE: R 33 [Company Data]

Refer to EPA website

Aspiration hazard	No data available
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Section 12. Ecological Information

Ecotoxicity – aquatic: Sodium selenate

Aquatic Acute 1

H400: Very toxic to aquatic life

Short term toxicity to fish:

R PHRASE: R 50/53 [Company Data]

Short term toxicity to invertebrates:

R PHRASE: R 50/53 [Company Data]

Toxicity to freshwater algae and cyanobacteria:

R PHRASE: R 50/53 [Company Data]

Aquatic Chronic 1

H410: Harmful to aquatic life with long lasting effects

Toxicity to freshwater algae and cyanobacteria:

R PHRASE: R 50/53 [Company Data]

Refer to EPA website

Ecotoxicity – Terrestrial	No data available
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Persistence and degradability	No data available
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The potential to be bioaccumulative	No data available
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Mobility in soil	No data available
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Other adverse effects	No data available
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Section 13. Disposal Considerations

Disposal: Preferably dispose of the product by its intended use.

If this isn't possible, dispose of product and packaging at an approved landfill or other approved hazardous waste disposal facility. Avoid contamination of any water source.

Preferably recycle empty container using a suitable drench container recovery program (e.g. AgRecovery: for details visit the site <http://www.agrecovery.co.nz/programmes/container-recycling>)

If this isn't possible then burn empty container in an appropriate incinerator, providing circumstances permit; i.e. suitable wind direction. Otherwise crush or puncture and bury in a suitable landfill.

Do not re-use container for any other purpose.

Section 14. Transport Information

UN Number	Not applicable
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UN proper shipping name	Not applicable
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UN dangerous goods class and subsidiary risk	Not applicable
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UN Packaging Group	Not applicable
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Environmental hazards Not applicable

Special precautions when transporting the substance Not applicable

Section 15. Regulatory Information

HSNO Approval Number HSR100758
Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020

ACVM Registration Number 12171

See www.foodsafety.govt.nz for registration conditions

Section 16. Other Information

Abbreviations	Descriptions
ACVM	Agricultural Compounds and Veterinary Medicines
EPA	Environmental Protection Agency (previously known as ERMA)
CAS Number	Chemical Abstracts Service Registry Number
GHS	Globally Harmonized System
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
UN Number	United Nations Number
SDS	Safety Data Sheet
ARTG	Australian Register of Therapeutic Goods

Ceiling Exposure Value The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

STEL Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15-minute period, provided the TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)

WES Workplace Exposure Standard – The airborne

UEL Upper Explosive Limit

EC50 Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)

LD50 Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats)

References: Unless otherwise stated, toxicity information has been obtained from the EPA HSNO chemical classification information database (CCID) <http://www.epa.govt.nz/hs/compliance/chemicals.html> for specific chemicals.

EPA Transfer Gazettes. Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) Controls Matrix. Part of the EPA New Zealand User Guide to the HSNO Control Regulations WES 2013. The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz.

Other references: Suppliers SDSs.