

# SAFETY DATA SHEET

## Horizon Cobalject 1000 B12 Injection

### SECTION 1: IDENTIFICATION

<b>Product name:</b>	<b>Horizon Cobalject 1000 B12 Injection</b>
<b>ACVM registration No:</b>	<b>A011690</b>
<b>Recommended use:</b>	<b>For the treatment and control of cobalt deficiency in sheep and cattle</b>
<b>Supplier:</b>	<b>HORIZON AGRESOURCES (NZ) LTD</b>
<b>Address:</b>	<b>Gloucester Court 250 Gloucester St, Napier 4112, New Zealand</b>
<b>Contact number:</b>	<b>0800 378 6300</b>
<b>Emergency contact number:</b>	<b>0800 734 607 (24 hours)</b>
<b>National Poisons Centre:</b>	<b>0800 764 766 (0800 POISON)</b>
<b>Document version and date:</b>	<b>1.0 23 July 2019</b>

### SECTION 2: HAZARD IDENTIFICATION

**EPA Approval number:** Non-Hazardous

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Product ingredients</b>	<b>CAS Number</b>	<b>Concentration</b>
Hydroxocobalamin (Vitamin B12)	22465-48-1	1 g/L
Remaining ingredients are commercially sensitive and cannot be disclosed in a public document.		

### SECTION 4: FIRST AID MEASURES

<b>General information:</b>	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. SELF-INJECTION: Seek medical attention immediately. Have product container to hand. 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.
<b>Inhalation:</b>	Remove to fresh air.
<b>Skin contact:</b>	If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.
<b>Eye contact:</b>	If splashed in eyes wash out immediately with water.
<b>Ingestion:</b>	If swallowed seek medical attention immediately. Have product container to hand. Rinse mouth out. Do NOT induce vomiting.
<b>Workplace facilities:</b>	No special facilities required.
<b>Notes for medical personnel:</b>	Apply symptomatic therapy (no specific antidote).

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### SECTION 5: FIRE FIGHTING MEASURES

<b>Fire and explosion hazards:</b>	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.
<b>Extinguishing media</b>	In case of fire, use carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.
<b>Fire fighting</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Flash point:</b>	No data available
<b>Auto ignition temperature:</b>	No data available
<b>Flammability class:</b>	No data available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	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.
<b>Environmental precautions:</b>	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.
<b>Methods and materials for containment and cleaning up:</b>	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

<b>Handling:</b>	Wash hands and exposed skin thoroughly after handling. Do not breathe mist.
<b>Certified handler:</b>	No
<b>Tracking:</b>	No
<b>Storage:</b>	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

<b>Occupational exposure limits:</b>	Sodium selenite 0.1 mg/m <sup>3</sup> (WES-TWA)
<b>Engineering controls:</b>	Prevent exposure by using personal protective equipment and work practices that prevent skin and eye contact.
<b>Protective material types:</b>	We suggest that protective clothing be made from rubber, PVC.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear red solution
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>pH:</b>	4.5 – 5.5
<b>Melting</b>	No data available

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<b>point/freezing point:</b>	
<b>Initial boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Flammability:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	0.990 – 1.050 g/mL
<b>Solubility (ies):</b>	Soluble in water
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Kinematic viscosity:</b>	No data available

### SECTION 10: STABILITY AND REACTIVITY

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

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Respiratory irritation:</b>	No data available
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/ irritation:</b>	No data available
<b>Respiratory or skin sensitisation:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Reproductive toxicity:</b>	No data available
<b>Specific organ toxicity:</b>	No data available

### SECTION 12: ECOLOGICAL INFORMATION

<b>Aquatic:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Soil:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative:</b>	No data available

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<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Disposal:</b>	<p>Preferably dispose of the product by its intended use.</p> <p>If this isn't possible, dispose of product and packaging at an approved landfill or other approved hazardous waste disposal facility.</p> <p>Avoid contamination of any water source.</p> <p>Preferably recycle empty container using a suitable drench container recovery program (e.g. AgRecovery: for details visit the site <a href="http://www.agrecovery.co.nz/programmes/container-recycling">http://www.agrecovery.co.nz/programmes/container-recycling</a>)</p> <p>If this isn't possible then burn empty container in an appropriate incinerator, providing circumstances permit; i.e. suitable wind direction.</p> <p>Otherwise crush or puncture and bury in a suitable landfill.</p> <p>Do NOT re-use container for any other purpose.</p>
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### SECTION 14: TRANSPORT INFORMATION

<b>UN Number:</b>	Not applicable
<b>UN proper shipping name:</b>	Not applicable
<b>UN dangerous goods class and subsidiary risk:</b>	Not applicable
<b>UN Packaging Group:</b>	Not applicable
<b>Environmental hazards:</b>	Not applicable
<b>Special precautions when transporting the substance:</b>	Not applicable

### SECTION 15: REGULATORY INFORMATION

<b>EPA Approval number:</b>	No-Hazardous
<b>ACVM No:</b>	A011690 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions

### SECTION 16: OTHER INFORMATION

<b>Abbreviations:</b>	<p>ACVM: Agricultural Compounds and Veterinary Medicines</p> <p>EPA: Environmental Protection Agency (previously known as ERMA)</p> <p>CAS Number: Chemical Abstracts Service Registry Number</p> <p>HAZCHEM Code: Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters</p> <p>HSNO: Hazardous Substances and New Organisms (Act and Regulations)</p> <p>UN Number: United Nations Number</p> <p>SDS: Safety Data Sheet</p> <p>ARTG: Australian Register of Therapeutic Goods</p> <p>Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.</p> <p>Controls Matrix: List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).</p> <p>IARC: International Agency for Research on Cancer</p> <p>LEL: Lower Explosive Limit</p> <p>STEL: Short Term Exposure Limit - The maximum airborne</p>
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	<p>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</p> <p>TWA: Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)</p> <p>WES: Workplace Exposure Standard - The airborne</p> <p>UEL: Upper Explosive Limit</p> <p>EC50: Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)</p> <p>LD50: Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).</p> <p>LC50: Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)</p>
<b>References:</b>	<p>Unless otherwise stated, toxicity information has been obtained from the EPA HSNO chemical classification information database (CCID) <a href="http://www.epa.govt.nz/hs/compliance/chemicals.html">http://www.epa.govt.nz/hs/compliance/chemicals.html</a> for specific chemicals.</p> <p>EPA Transfer Gazettes. Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)</p> <p>Controls Matrix. Part of the EPA New Zealand User Guide to the HSNO Control Regulations</p> <p>WES 2013. The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a>.</p> <p>Other References: Suppliers SDSs</p>
<b>Disclaimer:</b>	<p>This SDS was prepared by Horizon Agresources Ltd., and is based on our current state of knowledge, including information obtained from suppliers. This SDS is written in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the MSDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on experience, EPA Guidelines and international classifications. This SDS is copyright Horizon Agresources Ltd, and must not be edited without the permission of the copyright holder or used for other than intended purpose.</p>