



## Safety Data Sheet

Prolaject B12 2000 for Sheep and Cattle

### 1. IDENTIFICATION OF SUBSTANCE & COMPANY

#### Product information

**Product name** Prolaject B12 2000 for Sheep and Cattle  
**Other names** Cobalife VB12  
**ACVM approval** A006536  
**HSNO approval** non hazardous  
**Approval description** NA  
**UN number** NA  
**Proper Shipping Name** NA  
**Packaging group** NA  
**Hazchem code** 1T (recommended)

**Uses** For the treatment and control of cobalt deficiency in sheep and cattle.

#### Company Details

**Company** Bayer New Zealand Ltd  
**Address** 3 Argus Place,  
Hillcrest,  
Auckland 0627  
New Zealand.  
**Telephone** 0800 652 488  
**Facsimile** 0800 229 838

**Emergency Telephone Number: 0800 734 607**

### 2. HAZARD IDENTIFICATION

#### Approval

This product is considered non hazardous under the Hazardous Substances and New Organisms Act (HSNO):

#### Classes Hazard Statements

none

#### SYMBOLS

none

#### Other Classifications

ACVM registration number:  
A006536

There are no other classifications that are known to apply.

#### Precautionary Statements

none

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS/ Identification	Concentration
Hydroxocobalamin	13422-51-0	2mg/mL
Ingredients not contributing to HSNO classes	Proprietary	<5%
Water	7732-18-5	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.



## Safety Data Sheet

### Prolaject B12 2000 for Sheep and Cattle

#### 4. FIRST AID

##### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product.

**Recommended first aid facilities** Ready access to running water is recommended.

##### Exposure

###### Swallowed

Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

###### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

###### Skin contact

This product is non-irritating to skin. No further measures should be required.

###### Inhaled

Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

##### Advice to Doctor

Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical.

**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder, foam, fog sprays, water spray.

**Unsuitable extinguishing substances:** Use standard firefighting procedures and consider the hazards of other involved materials. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

**Protective equipment:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Hazchem code:** 1T (recommended)

#### 6. ACCIDENTAL RELEASE MEASURES

**Containment** The is no current legal requirement for secondary containment of this product. Emergency plans to manage any potential spill must be in place. Prevent spillage from spreading or entering soil, waterways or drains.

**Emergency procedures** If a significant spill occurs:  
Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container for disposal. Dispose of according to guidelines below (Section 13).

**Clean-up method** Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard.

**Disposal** Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

**Precautions** No special protective clothing is normally necessary.



## Safety Data Sheet

Prolaject B12 2000 for Sheep and Cattle

### 7. STORAGE & HANDLING

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by the NZ Department of Labour for this product. There is a general limit of 10mg/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (OSH – DoL 2011)	Ingredient	WES-TWA	WES-STEL
	No ingredient listed		

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### Personal Protective Equipment

<b>Eyes</b>	Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear if splashes are likely.
<b>Skin</b>	Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time.
<b>Respiratory</b>	A respirator when airborne concentrations approach the WES (section 8). Use a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

#### WES Additional Information

Not applicable

### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear reddish liquid
<b>Odour</b>	Characteristic odour
<b>pH</b>	neutral
<b>Vapour pressure</b>	no data
<b>Viscosity</b>	no data
<b>Boiling point</b>	no data
<b>Volatile materials</b>	no data
<b>Freezing / melting point</b>	no data
<b>Solubility</b>	soluble in water
<b>Specific gravity / density</b>	~1g/cm <sup>3</sup>
<b>Flash point</b>	non flammable
<b>Danger of explosion</b>	not explosive
<b>Auto-ignition temperature</b>	no data
<b>Upper &amp; lower flammable limits</b>	no data
<b>Corrosiveness</b>	non corrosive



## Safety Data Sheet

Prolaject B12 2000 for Sheep and Cattle

### 10. STABILITY & REACTIVITY

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
<b>Incompatible groups</b>	None known
<b>Substance Specific Incompatibility</b>	None known
<b>Hazardous decomposition products</b>	None known
<b>Hazardous reactions</b>	None known

### 11. TOXICOLOGICAL INFORMATION

#### Summary

IF SWALLOWED: Will not cause harm.

IF IN EYES: Not irritating.

IF ON SKIN: Not irritating.

IF INHALED: Not irritating.

#### Supporting Data

<b>Acute</b>	<b>Oral</b>	No evidence of acute toxicity.
	<b>Dermal</b>	No evidence of dermal toxicity.
	<b>Inhaled</b>	No evidence of inhalation toxicity.
	<b>Eye</b>	The mixture is not considered to be an eye irritant under HSNO.
	<b>Skin</b>	The mixture is not considered to be a skin irritant under HSNO.
<b>Chronic</b>	<b>Sensitisation</b>	EPA have not classed this as a sensitiser. No ingredient present >0.1% is classed as a sensitiser.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental</b>	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	<b>Systemic</b>	No ingredient present at concentrations > 1% is considered a target organ toxicant.
	<b>Aggravation of existing conditions</b>	None known.

### 12. ECOLOGICAL DATA

#### Summary

This mixture is not considered to be ecotoxic.

#### Supporting Data

<b>Aquatic</b>	No evidence of ecotoxicity in the aquatic environment.
<b>Bioaccumulation</b>	Not expected to bioaccumulate.
<b>Degradability</b>	Biodegradable.
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial vertebrate</b>	Not harmful towards terrestrial vertebrates.
<b>Terrestrial invertebrate</b>	Not harmful towards terrestrial invertebrates.
<b>Environmental effect levels</b>	No EELs are available for this mixture or ingredients



## Safety Data Sheet

Prolaject B12 2000 for Sheep and Cattle

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### 13. DISPOSAL CONSIDERATIONS

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

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### 14. TRANSPORT INFORMATION

There are no specific restrictions for this product (not a dangerous good).

<b>UN number:</b>	NA	<b>Proper shipping name:</b>	NA
<b>Class(es):</b>	NA	<b>Packing group:</b>	NA
<b>Precautions:</b>	NA	<b>Hazchem code:</b>	1T (recommended)

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### 15. REGULATORY INFORMATION

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO).

#### **Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)**

No workplace controls apply to this product (non hazardous).

#### **Other Legislation**

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.  
ACVM registration number: A006536



# Safety Data Sheet

## Prolaject B12 2000 for Sheep and Cattle

### 16. OTHER INFORMATION

#### Abbreviations

<b>Approval Code</b>	Not applicable – non hazardous under HSNO. Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>ACVM</b>	Agricultural Compounds and Veterinary Medicines
<b>ARTG</b>	Australian Register of Therapeutic Goods
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>ERMA</b>	Environmental Risk Management Authority (now EPA)
<b>EPA</b>	Environmental Protection Agency (previously known as ERMA)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>OSH - DoL</b>	The Occupational Safety and Health Service of the Department of Labour (NZ)
<b>STEL</b>	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
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed.

#### References

<b>Data</b>	Unless otherwise stated comes 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.
<b>EPA Transfer Gazettes</b>	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
<b>Controls Matrix</b>	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
<b>WES 2011</b>	The NZ Workplace Exposure Standards Effective from 2011, published by OSH – DoL and available on their web site – <a href="http://www.osh.dol.govt.nz">www.osh.dol.govt.nz</a> .
<b>Other References:</b>	Suppliers MSDS

#### Review

Date	Reason for review
November 2012	Not applicable – new MSDS

#### Disclaimer

This MSDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The MSDS is given 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 our experience, EPA Guidelines and international classifications. This MSDS is copyright Datachem and must not be edited without the permission of the copyright holder or used for other than intended purpose. To contact the MSDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: (09) 940 30 80.

