



SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name:	Vitbee® (0.025% or 0.1% Solution for Injection)
Synonyms:	Not Available
Proper Shipping name:	Not Available
Other means of identification:	None

1.2 Relevant identified uses of the substances or mixture and uses advised against

Recommended uses:	As an aid in raising Vitamin B12 levels in sheep, foals and calves. For use in the treatment of Vitamin B12 deficiency, and for poor growth rates and general unthriftiness in young animals when associated with the above deficiency.
Uses advised against:	Not for human use. Do not give by the intravenous route.

1.3 Details of the supplier of the substance or mixture

Registered company name:	Dechra Ltd
Address:	Snaygill Industrial Estate Keighley Road Skipton North Yorkshire BD23 2RW UK
Telephone:	+44 (0) 1756 791311
Fax:	+44 (0) 1756 798604
Email:	Not available

1.4 Emergency Telephone Numbers

	+44 (0) 1756 791311
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

DSD Classification (EU):	Not Available
DPD Classification:	Not Available
Classification according to	Not Available



regulation (EC) No 1272/2008 [CLP] (EU)¹:	
2.2 Label Elements	
Signal Word:	Not Available
Hazard Statement(s)	
Not Available	
Additional Statement(s)	
None	
Precautionary Statement(s) Prevention:	
Not Available	
Precautionary Statement(s) Response:	
Not Available	
Precautionary Statement(s) Storage:	
Not Available	
Precautionary Statement(s) Disposal:	
Not Available	
2.3 Other Hazard Information	

SECTION 3: INFORMATION ON THE INGREDIENTS

3.1 Substances

See section below for composition of mixtures

3.2 Mixtures

1.CAS No 2.EC Number 3.Index Number 4.REACH Number	% w/v	Name	Classification according to regulations (EC) No 1272/2008 [CLP] (EU)
1. 68-19-9 2. 200-680-0 3. Not Available 4. 01-2120088037-53-XXXX	0.025 – 0.1	Cyanocobalamin (Vitamin B12)	Not Applicable
N/a	Proprietary	Other ingredients determined not to be	N/a



		hazardous	
Legend:	1. Classified by Chemwatch		

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	In case of accidental contact of the product with the eyes rinse with fresh water. Seek medical attention if irritation persists, showing the package leaflet or label to the medical practitioner.
Skin contact:	In case of accidental contact of the product with the skin, rinse with fresh water. Seek medical attention if irritation persists, showing the package leaflet or label to the medical practitioner.
Inhalation:	Not expected to be a hazard.
Ingestion:	In case of ingestion, seek medical advice as a precaution, showing the package leaflet or label to the medical practitioner.
Self-injection:	Care should be taken to avoid accidental self-injection. In case of self-injection, seek medical advice as a precaution, showing the package leaflet or label to the medical practitioner.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of immediate medical attention and special treatment needed

N/a

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable:	Select extinguishing media suitable for surrounding area.
Unsuitable:	None.

5.2 Special hazards arising from the substance or mixture

Fire incompatibility:	None known
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5.3 Special protective actions for fire-fighters:

Firefighting:	Alert Fire Brigade and tell them location and nature of hazard. Cool containers with water spray. Wear full breathing apparatus and self-contained breathing apparatus.
Fire / explosion hazard:	Irritating and highly toxic gases may be generated from thermal decomposition or combustion.



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For information on protective equipment, see section 8.

6.2 Environmental Precautions

Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up

Minor Spills:	Absorb solution and place into a suitable disposal container.
Major Spills:	Control personal contact with the substance, by using protective equipment. Absorb solution and place into a suitable disposal container.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe Handling:	Wear suitable protection gloves and clothing when handling the product. Wash hands after use. When handling, DO NOT eat, drink or smoke. Observe manufacturer's storage and handling recommendations.
Other Information:	Keep out of the reach and sight of children.

7.2 Conditions for safe storage, including any incompatibilities

Suitable Container:	Do not store above 25°C. Protect from light. Following withdrawal of the first dose, use the product within 28 days.
Storage incompatibility:	Unknown.

7.3 Specific end uses

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

DERIVED NO EFFECT LEVEL - DNEL (EU)

Not Available

PREDICTED NO EFFECT LEVEL - PNEC (EU)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Not Available

EMERGENCY LIMITS:

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
Potassium bromide	Potassium bromide	9.2 mg/m ³	100 mg/m ³	610 mg/m ³

Ingredient	Original IDLH	Revised IDLH
Not Available		

Not Available

8.2 Exposure controls

Appropriate engineering controls: The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.

Personal protection:



Eye and face protection: Safety glasses with side shields / chemical goggles

Skin protection: See hand protection below

Hands/ feet protection: No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves

Body protection: Wear appropriate clothing

Other protection: No special equipment needed when handling small quantities

Thermal hazards: Not applicable

Respiratory protection: Not applicable



8.3 Environmental exposure controls

See Section 12

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Vitbee®: clear, red, sterile solution for injection
Container: 50 ml type I amber glass vial, fitted with a red type I bung and aluminium overseal. Secondary packaging: cardboard carton
Physical state: Solution
Odour: Not available
Odour Threshold: Not available
pH (as supplied): Not available
Melting point / freezing point (degrees C): >300°C
Initial boiling point and boiling range: >300°C
Flash Point: Not available
Evaporation rate: Not available
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Relative Density (at degrees C): Not available
Solubility in water and solvents (mg/l): Moderately soluble
Vapour density: Not available
Auto ignition temperature (degrees C): Not available
Decomposition temperature (degrees C): Not available
Viscosity: (degrees C): Not available
Explosive properties: Not available
Oxidising properties: Not available
Partition Coefficient: Not available
Molecular weight: 1355.42
Taste: Not available
Surface tension: Not available
Volative component: Not available
Gas group: Not available
pH as a solution: Not available
VOC g/L: Not available

9.2 Other information

Not Available

10: REACTIVITY AND STABILITY

10.1 Reactivity:	See Section 7
10.2 Chemical stability:	Product is considered stable.
10.3 Possibility of hazardous reactions:	Stable under normal temperatures and conditions.
10.4 Conditions to avoid:	See section 7.



10.5 Incompatible materials:	See section 7.
10.6 Hazardous decomposition:	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION		
Inhalation:	May cause respiratory tract irritation.	
Ingestion:	May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. Ingestion of large amounts may cause convulsions, tremors, muscular contractions or spasticity, diarrhoea or fever.	
Skin contact:	May cause skin irritation and sensitization.	
Eye contact:	Contact may cause transient eye irritation.	
Chronic:	Not expected to cause any chronic health damage.	
Vitbee®:	Acute toxicity	Irritation
	Not Available	Not Available
Cyanocobalamin:	Acute toxicity	Irritation
	Not Available	Not Available
<i>1. * Value obtained from manufacturer's SDS. Unless otherwise specified, data extracted from RTECS - Register of Toxic Effect of chemical Substances</i>		
Skin corrosion/ irritation:		
	Not Available	
Serious eye damage/ irritation:		
	Not available	
Respiratory or skin sensitization:		
	May cause skin sensitization in some people.	
Germ cell mutagenicity:		
	Not available	
Carcinogenicity:		
	Not available	



Reproductive toxicity:
Not contraindicated in pregnant or lactating animals.
STOT – single exposure:
Not available
STOT–repeated exposure:
Not available
Aspiration hazard:
Not available

SECTION 12: ECOLOGICAL INFORMATION		
12.1 Toxicity		
Not Available		
12.2 Persistence and degradability		
Ingredient	Persistence: Water/Soil	Persistence: Air
Cyanocobalamin	HIGH	HIGH
12.3 Bioaccumulative potential		
Ingredient	Bioaccumulative potential	
Cyanocobalamin	LOW (LogKOW = -12.1962)	
12.4 Mobility in Soil		
Ingredient	Mobility	
Cyanocobalamin	LOW (KOC = 10000000000)	
12.5 Results of PBT and vPvB assessment		
Not Available		
12.6 Other adverse effects		
Not Available		

SECTION 13: DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
Product / packaging	Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance



disposal:	with national requirements. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.
Waste Treatment Options:	Not Available
Sewage Disposal Options:	Not Available

SECTION 14: TRANSPORT INFORMATION

Labels required:	None
Marine pollutant:	NO
Hazchem:	Not Applicable

Land transport (ADR):		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	Class	N/a
	Sub risk	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions	N/a
	Classification code	N/a
	Hazard Label	N/a
	Special provisions	N/a
	Limited quantity	N/a



14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Air transport (ICAO-IATA / DGR):		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	
14.3 Transport hazard class(es)	ICAO/IATA Class	N/a
	ICAO / IATA Sub risk	N/a
	ERG Code	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions	N/a
	Cargo only packing instructions	N/a
	Cargo only maximum qty/pack	N/a
	Passenger and cargo packaging instructions	N/a
	Passenger and cargo maximum qty/pack	N/a
	Passenger and cargo limited quantity packing instructions	N/a
	Passenger and cargo limited maximum qty/pack	N/a
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Sea transport (IMDG-Code / GGVSee):		
14.1 UN Number	N/a	
14.2 UN Proper Shipping Name	N/a	



14.3 Transport hazard class(es)	IMDG Class	N/a	
	IMDG Sub risk	N/a	
14.4 Packing group	N/a		
14.5 Environmental hazards	N/a		
14.6 Special precautions for user	EMS Number	N/a	
	Special provisions	N/a	
	Limited quantities	N/a	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a		
Inland waterways transport (ADN):			
14.1 UN Number	N/a		
14.2 UN Proper Shipping Name	N/a		
14.3 Transport hazard class(es)	N/a		N/a
14.4 Packing group	N/a		
14.5 Environmental hazard	N/a		
14.6 Special precautions for user	Classification Code	N/a	
	Special provisions	N/a	
	Limited quantity	N/a	
	Equipment required	N/a	
	Fire cones number	N/a	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture



CYANOCOABALMIN (7758-02-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- European Customs Inventory of Chemical Substances ECICS (English)
- European Union – European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
- International Agency for research on cancer (IARC) Classified by the IARC Monographs-Agents

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable:- 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC

15.2 Chemical Safety Assessment

ECHA SUMMARY

Ingredient	CAS number	Index Number	ECHA Dossier
Cyanocobalamin	7758-02-3	Not Available	01-2120088037-53-XXXX

Harmonization (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not classified	Not classified	Not classified
2	Skin Irrit. 2, Eye Irrit. 2	GHS07, Wng	H315, H319

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification

Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (cyanocobalamin)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y (cyanocobalamin)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)



SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by REACH, GHS and ECHA.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

Definitions and abbreviations

- PC—TWA: Permissible Concentration-Time Weighted Average
- PC—STEL: Permissible Concentration-Short Term Exposure Limit
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations

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