

# SAFETY DATA SHEET



Virbac New Zealand Limited

## Vibrostep

### Section 1: Identification of the Substance and Supplier

<b>Product name:</b>	<b>Vibrostep</b>
<b>Recommended use:</b>	For the treatment of bovine Vibriosis and infections caused by organisms susceptible to streptomycin and dihydrostreptomycin in pigs, sheep and cattle. <b>Restricted Veterinary Medicine.</b>
<b>Company details:</b>	Virbac New Zealand Limited
<b>Address:</b>	26 -30 Maui St, Pukete Park, Hamilton
<b>Telephone number:</b>	(07) 849 6782
<b>Customer service toll free number:</b>	0800 VIRBAC (0800 847 222) (Mon – Fri, 8.30 am – 4.30 pm) www.virbac.co.nz
<b>Emergency telephone number:</b>	National Poison Center: 0800 POISON (0800 764 766) New Zealand Emergency Service 111
<b>Date of preparation:</b>	27 June 2017

### Section 2: Hazards Identification

<b>Hazard classifications:</b>	<b>6.1C, 6.5B, 6.8A, 6.9A, 9.1A, 9.3B</b>
<b>Priority identifier:</b>	<b>DANGER</b> <b>KEEP OUT OF REACH OF CHILDREN ECOTOXIC</b>
<b>Secondary identifiers:</b>	6.1C = Toxic if swallowed or inhaled or in contact with skin 6.5B = May cause an allergic skin reaction 6.8A = May damage fertility or the unborn child 6.9A = Cause damage to organs through prolonged or repeated exposure 9.1A = Very toxic to aquatic life/ Very toxic to aquatic

life with long lasting effects  
9.3B = Toxic to terrestrial vertebrates

**Precautionary information:**

Keep out of reach of children.  
Read label before use.  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/ clothing and eye and face protection  
Use personal protective equipment as required  
Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Avoid breathing mist/spray  
Contaminated work clothing should not be allowed out of the workplace  
Avoid release to the environment  
Collect spillage

**Section 3: Composition / Information on Ingredients**

<b>Product components:</b>	<b>Ingredients</b>	<b>CAS Number</b>	<b>Proportion (% w/v)</b>
	Streptomycin (as sulphate)	3810-74-0	25.0
	Dihydrostreptomycin (as sulphate)	5490-27-7	25.0
	Sodium metabisulphite	7681-57-4	0.1 – 1.0

**Section 4: First Aid Measures**

**Symptoms of acute overexposure**

The product is relatively harmless in the absence of any allergic sensitivity. Skin rash, watery eyes, shortness of breath, coughing & wheezing and/or nasal congestion may occur. For allergic individuals the symptoms are more severe, especially difficulty in breathing, and immediate medical assistance is recommended. Damage to hearing is unlikely to occur from a single overexposure.

**Eye Contact:**

Immediately hold eyes open & wash continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart & away from eye & moving the eyelids by occasionally lifting the upper & lower lids. If discomfort persists, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

<b>Skin Contact</b>	Immediately flush body & clothes with large quantities of water. Quickly remove all contaminated clothing & footwear. Wash affected areas with water (& soap if available) for at least 15 minutes. Obtain medical attention if irritation develops. Wash clothing before re-use.
<b>Inhalation:</b>	Remove to fresh air. Lay patient down. Keep warm & rested & observe for any signs of an allergic reaction. If breathing is difficult, obtain medical attention.
<b>If swallowed:</b>	Contact doctor or National Poisons Centre (0800 764 766). DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water & give plenty of water to drink. For significant quantities, lean patient forward or place on left side (head down, if possible) to maintain open airway & prevent aspiration & refer for medical attention without delay. Provide a copy of this document to the practitioner.
<b>Workplace facilities:</b>	No specific workplace facilities required.
<b>Advice to doctor:</b>	Treat symptomatically. Treat as for an actual or potential allergen.

### Section 5: Firefighting Measures

<b>Type of hazard:</b>	Non-flammable
<b>Fire hazard properties:</b>	May emit toxic fumes when exposed to fire or heat. Flash point: not known. Ignition temperature: Not known
<b>Regulatory requirements:</b>	Do not handle until all safety precautions have been read and understood.
<b>Extinguishing media and methods:</b>	Water spray or fog / foam / dry chemical powder / carbon dioxide.
<b>HAZCHEM:</b>	N/A
<b>Recommended protective clothing:</b>	Breathing apparatus for fire only.

### Section 6: Accidental Release Measures

<b>Emergency procedures:</b>	Wear sufficient respiratory protection where necessary and protective clothing to minimize skin exposure. If possible contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material.
------------------------------	---

**Environmental precautions**

Spilled product & washings must be prevented from entering any drains or waterways, or from contaminating the ground.

**Procedure for a spill**

Keep all bystanders away. Wear appropriate protective gear. Re-position any leaking containers to minimise any further leakage. Dam and absorb spill with an absorbent material (sand or soil).  
Shovel the absorbed material into a drum or similar robust container. Dispose of in an approved landfill. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water possible.

**Section 7: Handling and Storage**

**Precautions for safe handling:**

Wash hands thoroughly after handling.  
Wear protective gloves when handling.  
In case of inadequate ventilation wear respiratory protection.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid contamination of any water supply with chemical or empty container.

**Approved handlers:**

Not required

**Conditions for safe storage:**

See below

**Store site requirements:**

Keep out of reach of children. Store in original container, tightly closed, away from foodstuffs. Store upright in a cool place. Do not freeze. Protect from light. Store locked up.

**Packing:**

No specific packaging requirement.

**Section 8: Exposure Controls / Personal Protection**

**Workplace Exposure Guidelines:**

No working exposure standards have been established.

**Exposure standards outside the workplace**

No tolerable exposure limit (TEL) or environmental exposure limit (EEL) are set for this substance at this time.

**Engineering controls:**

N/A

**Personal protective Equipment (PPE):**

When handling bulk quantities, wear suitable gloves, protective clothing, to avoid prolonged breathing of dust or contact of dust with skin.  
Wash thoroughly with soap and water after handling.

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	A yellowish, viscous, aqueous solution
<b>Odour</b>	Sweet
<b>Flash point</b>	Not known
<b>Ignition temperature</b>	Not known
<b>Specific Gravity:</b>	1.28 g/L
<b>pH:</b>	5.0 – 7.5
<b>Solubility in Water:</b>	Slightly soluble in water
<b>Flammability:</b>	Not flammable
<b>Combustibility:</b>	Not combustible until the water has been driven off by the heat.
<b>Explosive properties</b>	Not corrosive to metals but classified as corrosive to ocular tissue
<b>Oxidising properties</b>	Not oxidizing
<b>Corrosiveness</b>	Not corrosive

## Section 10: Stability and Reactivity

<b>Stability of the substance:</b>	Stable under normal conditions of use.
<b>Conditions to avoid</b>	Temperatures exceeding 20°C or less than 2°C.
<b>Material to avoid:</b>	Solvents which may degrade the container. Strong oxidising agents (e.g. peroxides, permanganates, nitric acid etc).
<b>Hazardous decomposition products:</b>	On heating to decomposition, emits toxic fumes.
<b>Hazardous polymerization:</b>	Does not occur
<b>Specific Data</b>	N/A

## Section 11: Toxicological Information

The information below applies to penicillin & dihydrostreptomycin (DHS)

<b>Acute toxicity (LD50)</b>	Streptomycin sulphate: Rat, oral: 430 mg/kg. Rat, s.c. 600mg/kg. Mouse, oral: 430mg/kg.
------------------------------	--

	DHS: Mouse, i.v: 264mg/kg
<b>Chronic toxicity</b>	DHS; NOEL (rat, oral) 5mg/kg/day
<b>Mutagenicity</b>	Not mutagenic

### Section 12: Ecological Information

<b>Aquatic environment</b>	Very ecotoxic in the aquatic environment (low levels of antibiotics in waterways may lead to increased microbial resistance and greater sensitisation of human populations using the water). No evidence of accumulation in aquatic organisms.
<b>Terrestrial vertebrates</b>	Toxic to terrestrial vertebrates.

### Section 13: Disposal Considerations

<b>Procedure for product disposal</b>	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
<b>Procedure for container disposal</b>	Ensure container is completely empty. If permitted under Local Authority Plans burn if circumstances, especially wind direction, permit otherwise crush & bury in an approved Local Authority facility. DO NOT use the container for any other purpose.

### Section 14: Transport Information

<b>Transport information:</b>	Under the HSNO Control EM1, the transport of quantities of this product in excess of 1L must comply with Land Transport Rule 45001 & Maritime Rule 24A in terms of labelling & documentation. Transport of any quantity by air must comply with Civil Aviation Rule 92.
-------------------------------	---

### Section 15: Regulatory Information

**Registration number:** **A003144**

For conditions of registration see <http://www.foodsafety.govt.nz>

**HSNO Classification:**

ERMA Approval Code: **HSR002213**

Toxic: T2, T4, T5, T7.

Identification: I1, I8, I9, I16, I17, I18, I19, I20, I21, I23, I28, I29, I30.

Packaging: P1, P3, P13, P15, PG3

Disposal: D4, D5, D6, D7, D8

Emergency management: EM1, EM6, EM8, EM11, EM12, EM13

For a full listing of controls see <http://www.epa.govt.nz>

**Section 16: Other Information**

For product information visit the Virbac website [www.virbac.co.nz](http://www.virbac.co.nz)  
While the information set forth is believed to be accurate as of the date hereof, Virbac New Zealand Limited makes no warranty with respect hereto and disclaims all liability from reliance thereon.