SAFETY DATA SHEET

Zoetis New Zealand Limited

Section 1: Identification of the Substance and Supplier

Trade Name:	**NEOMIX® Concentrate**
ACVM Registration No.:	A001350
Classification:	Restricted Veterinary Medicine (RVM)
Recommended Use:	Oral antibiotic for treatment of bacterial enteritis caused by organisms susceptible to neomycin in cattle, pigs and poultry.
Company Details:	Zoetis New Zealand Limited
Address:	Level 5, 8 Mahuhu Crescent Auckland Central Auckland 1010 New Zealand
Telephone No.:	0800 963 847 (Business Hours)
Emergency Telephone No.:	National Poisons Centre: 0800 POISON (0800 764 766) Emergency Services: In an emergency dial 111
Date of Preparation:	30 June 2014

Section 2: Hazards Identification

Hazard Classification:	6.5A, 6.5B, 6.9A
Priority Identifier(s):	WARNING - KEEP OUT OF REACH OF CHILDREN
Secondary Identifier(s):	6.5A May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust. 6.5B May cause an allergic skin reaction. Avoid skin contact. 6.9A May cause target organ damage from repeated oral exposure at high doses.

Section 3: Composition / Information on Ingredients

Chemical Identity of Ingredients

Ingredient	CAS No.	Concentration
Neomycin sulphate	1405-10-3	715.0 g/kg
Other ingredients determined not to be hazardous.	-	-

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

Section 4: First Aid Measures

Necessary First Aid Measures: **For advice contact the National Poisons Centre at 0800 POISON (0800 764 766) or a doctor immediately.** If the patient is not breathing begin artificial respiration and seek medical advice immediately. Never give fluids or induce vomiting if a patient is unconscious or convulsing, regardless of injury.

- **Ingestion:** DO NOT induce vomiting. If the patient is conscious wash mouth out with water. Do not give anything by mouth to an unconscious person. Seek medical advice immediately.
- **Eye Contact:** Flush the eye(s) out with running water for at least 15 minutes. Removal of contact lenses should be done with caution within 5 minutes of exposure. If symptoms develop seek medical advice immediately.
- **Skin Contact:** Remove any contaminated clothing and wash the affected area immediately with soap and water. If symptoms develop seek medical advice immediately.
- **Inhalation:** Move the patient to fresh air. If symptoms develop seek medical advice immediately.

Poisoning Symptoms: The most common adverse effects reported with clinical use were diarrhoea, nausea, rash, and vomiting.

Workplace Facilities: No specific facilities required. Standard emergency equipment must be available.

Hygiene Practices: Avoid ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.

Notes for Medical Personnel: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Note the nature of this product.

Section 5: Fire-Fighting Measures

Type of hazard: This product is non-flammable, non-combustible and non-explosive.

Fire Hazard Properties: Fine particles (such as dust and mists) may fuel fires/explosions. Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other sulfur-containing compounds on combustion.

Regulatory Requirements: Not applicable.

Extinguishing Media & Methods: Use dry chemical, foam, carbon dioxide or water to extinguish fires involving this product.

Hazchem Code: Not allocated.

Recommended Protective Clothing: During large-scale fire fighting operations wear approved positive pressure, self-contained breathing apparatus and full protective turn-out gear.

Section 6: Accidental Release Measures

Personal Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment to minimise exposure. This may include eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.
Procedure for Spills:	1. Non-essential personnel should be evacuated from the affected area. 2. Stop leak and contain the source of spill if it is safe to do so. Reposition any leaking containers to minimise further leakage. 3. Absorb the spill with an absorbent material (e.g. sand). 4. Collect the spilled material into labelled containers for disposal, minimising dust generation. 5. Decontaminate the spill area thoroughly with detergent and water, preventing runoff from entering drains.
Procedure for Disposal:	Contaminated material must be disposed of at an approved landfill or other approved facility in accordance with local, regional and national requirements. Avoid contamination of any water supply with product or empty container.

Section 7: Handling and Storage

Handling

Precautions for Safe Handling:	No special technical protective measures required. No special handling advice required.
Regulatory Requirements:	Not required.
Handling Practices:	Avoid ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.
Approved Handlers:	Approved handlers are not required for this product.

Storage

Conditions for Safe Storage:	Store below 30°C (Room Temperature). Keep out of reach of children. Store in a well ventilated area in the original container, tightly closed, away from foodstuffs.
Store Site Requirements:	No additional requirements.
Packaging:	Store in the original container, away from foodstuffs.

Section 8: Exposure Control / Personal Protection

Always Read and Follow the Label Instructions and Warnings

Workplace Exposure Guidelines	
Workplace Exposure Standards:	A time weighted average (TWA) concentration for an 8-hour day, and a 5-day week has not been established for the active ingredient in this product. A TWA of 10 mg/m^3 has been set for the sucrose filler according to the OSH Workplace Exposure Standards 2002 document, and WorkSafe Australia's Exposure Standards for Atmospheric Contaminants in the Occupational Environment document (May 1995).
Application in the Workplace:	The nature of this product makes it unlikely that this level will be approached during normal handling.
Exposure Standards Outside the Workplace:	None set.
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal Protection:	The following instructions are for those coming into frequent and / or lengthy contact with this product. For occasional handling employ precautions suitable for the conditions under which the product is being handled.
	Hands: Impervious gloves are recommended if skin contact is possible and for bulk processing operations.
	Eyes: It is always prudent to utilise protective eyewear.
	Skin: When prolonged or frequently repeated contact could occur, utilise chemically protective clothing. Selection of specific items such as a face shield, gloves, boots, or overalls will depend on the situation.
	Respiratory: Respiratory protection is not normally required; however, if necessary utilise an air-purifying respirator that complies with NZ standards.
General Hygiene:	Change work clothes regularly. Avoid ingestion, contact with skin and eyes, and inhalation of dusts, mists or vapours. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.

Section 9: Physical and Chemical Properties

Appearance:	White to off-white powder
Odour:	No data available
Specific Gravity / Density:	No data available
Melting Point:	No data available
Freezing Point:	No data available
pH:	No data available
Solubility in Water:	Soluble
Flashpoint:	Not applicable. This product is not flammable
Oxidising Properties:	Not applicable. This product is not an oxidiser
Corrosive Properties:	Not applicable. This product is not corrosive
Vapour Pressure:	Not applicable

Section 10: Stability and Reactivity

Stability of the Substance:	This product is stable under normal conditions of use.
Conditions to Avoid:	Store as recommended. Avoid moisture and heat.
Material to Avoid:	As a precautionary measure, keep away from strong oxidizers.
Hazardous Decomposition Products:	This product is unlikely to spontaneously decompose. Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other sulfur-containing compounds on combustion.
Hazardous Polymerisation:	This product is unlikely to spontaneously polymerise.
Specific Data:	No specific data available.

Section 11: Toxicological Information

HSNO Classifications

6.5A	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust.
6.5B	May cause an allergic skin reaction. Avoid skin contact.
6.9A	May cause target organ damage from repeated oral exposure at high doses.

Acute Effects

Acute Toxicity: (Species, Route, End Point, Dose):

- Rat Oral LD_{50} 2750 mg/kg
- Mouse Oral LD_{50} 2880 mg/kg
- Mouse Intraperitoneal LD_{50} 116 mg/kg
- Rat Subcutaneous LD_{50} 633 mg/kg
- Mouse Subcutaneous LD_{50} 275 mg/kg

Sensitisation: (Study Type, Species, Severity):

- Skin Irritation Rabbit Moderate
- Eye Irritation Rabbit Minimal

Chronic / Long Term Effects

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ):

- 6 Week(s) Dog Oral 100 mg/kg/day NOAEL Kidney
- 3 Month(s) Guinea Pig Oral 10 mg/kg/day NOAEL Auditory system
- 3 Month(s) Dog Subcutaneous 20 mg/kg/day LOAEL Kidney
- 12 Month(s) Cat Oral 12 mg/kg/day NOAEL Blood forming organs

Reproductive & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s)):

- Reproductive & Fertility Mouse Oral 4000 mg/L NOAEL Not teratogenic, Fetotoxicity
- 2 Generation Reproductive Toxicity Rat Oral 25 mg/kg/day NOAEL Fetotoxicity
- Reproductive & Fertility Rat Oral 25 mg/kg/day NOAEL Fetotoxicity
- Prenatal & Postnatal Development Rat Subcutaneous 6 mg/kg/day LOAEL Developmental toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result):

- Bacterial Mutagenicity (Ames) *Salmonella* , *E. coli* Negative
- Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells Negative
- *In Vitro* Cytogenetics Not specified Negative
- Chromosome Aberration Human Lymphocytes Positive

Carcinogenicity:	(Duration, Species, Route, Dose, End Point, Effect(s)): • 2 Years (Rat) Oral 25 mg/kg/day NOAEL Not carcinogenic None of the components are listed as a carcinogen by IARC, NTP or OSHA.

Section 12: Ecotoxicity Information

HSNO Classifications

Not applicable. This product is not classified as ecotoxic.

The environmental characteristics of this material have not been fully evaluated.
Avoid contamination of any water supply with product or empty container.

Ecotoxicity Effects	
Toxicity to Birds:	Not applicable
Acute Toxicity to Fish:	Not applicable
Toxicity to Algae:	Not applicable
Toxicity to Aquatic Invertebrates:	Not applicable
Toxicity to Soil Dwelling Organisms:	Not applicable
Acute Toxicity to Bees:	Not applicable

Environmental Fate

No information available.

Section 13: Disposal Considerations

Product Disposal:	Preferably dispose of product by use in accordance with label directions. Otherwise dispose of product at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with product.
Container Disposal:	Dispose of empty containers by wrapping in paper and putting in garbage for disposal at an approved landfill, or other approved facility in accordance with local, regional and national regulations. Avoid contamination of any water supply with empty container.

Section 14: Transport Information

Dangerous Goods Classification

UN No.:	Not applicable. This product is not a dangerous good.
Class:	Not applicable. This product is not a dangerous good.
Packing Group:	Not applicable. This product is not a dangerous good.
Proper Shipping Name:	Not applicable. This product is not a dangerous good.

Section 15: Regulatory Information

HSNO Approval No.:	HSR002124
HSNO Controls:	See www.epa.govt.nz for controls
ACVM Registration No.:	A001350
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions

Section 16: Other Information

Note: This product is a veterinary medicine and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT:	**Zoetis New Zealand Limited:**	0800 963 847 (Business Hours)
	National Poisons Centre:	0800 POISON (0800 764 766)
	Emergency Services:	Dial 111

This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING PRODUCT.

If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.