

# SAFETY DATA SHEET



## 1. Identification

<b>Product identifier</b>	<b>Resvac®4/Somubac®</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	Resvac 4 / Somubac * Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza-3-Respiratory Syncytial Virus vaccine, Modified Live Virus-Haemophilus somnus Bacterin
<b>Recommended use</b>	Veterinary vaccine
<b>Recommended restrictions</b>	Not for human use
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company Name (USA)</b>	Zoetis Inc. 10 Sylvan Way Parsippany, New Jersey 07054 (USA)
<b>Rocky Mountain Poison and Drug Center</b>	1-866-531-8896
<b>Product Support/Technical Services</b>	1-800-366-5288
<b>Emergency telephone numbers</b>	CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887
<b>Company Name (CA)</b>	Zoetis Canada Inc. 16740 Trans-Canada Highway Kirkland, Quebec, H9H 4M7
<b>Emergency telephone number</b>	International CHEMTREC (24 hours): +1-703-527-3887
<b>Contact E-Mail</b>	productsupport@zoetis.com
<b>Product Support</b>	1-800-461-0917

All Safety Data Sheets are available via our Zoetis Canada website at <https://www.zoetis.ca/sds/sds.aspx>

**Supplier** Not available.

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### Label elements

<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.

### Precautionary statement

<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** None known.

**Supplemental information** Direct contact with eyes may cause temporary irritation. In the event of accidental injection, an allergic reaction may occur.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium hydroxide		21645-51-2	<5
EDTA		60-00-4	<3
Formaldehyde		50-00-0	<0.1
Bovine Parainfluenza3		Not assigned	*
Bovine Respiratory Syncytial Virus		Not assigned	*
Bovine Rhinotracheitis		Not assigned	*
Bovine Virus Diarrhea		Not assigned	*
Haemophilus somnus		Not assigned	*
Neomycin sulfate		1405-10-3	##
Polymyxin B		1404-26-8	##
Sodium O-(ethylmercurithio)benzoate		54-64-8	##

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments**      ## Trace  
\* Non-hazardous Ingredients

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	In the case of skin contact, immediately wash the skin with plenty of soap and water. In the event of accidental self injection or needle stick injury, wash the injury thoroughly with clean running water. Get medical attention immediately.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do.
<b>Ingestion</b>	Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation, redness, or discomfort. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions****7. Handling and storage****Precautions for safe handling**

Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Avoid accidental injection. Wash thoroughly after handling. When using, do not eat, drink or smoke. Wear personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store out of direct sunlight in dark, dry conditions. @ 2 - 7°C (36 - 45°F). Do not freeze. Store in original tightly closed container. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection****Occupational exposure limits****Zoetis****Components**

Neomycin sulfate (CAS 1405-10-3)

**Type**

TWA

**Value**

100 µg/m<sup>3</sup>

**US. ACGIH Threshold Limit Values****Components**

Aluminium hydroxide (CAS 21645-51-2)

**Type**

TWA

**Value**

1 mg/m<sup>3</sup>

**Form**

Respirable fraction.

Formaldehyde (CAS 50-00-0)

Ceiling

0.3 ppm

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)

STEL

0.03 mg/m<sup>3</sup>

TWA

0.01 mg/m<sup>3</sup>

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)****Components**

Aluminium hydroxide (CAS 21645-51-2)

**Type**

TWA

**Value**

3 mg/m<sup>3</sup>

**Form**

Respirable particles.

Formaldehyde (CAS 50-00-0)

Ceiling

10 mg/m<sup>3</sup>  
1.3 mg/m<sup>3</sup>

Total particulate.

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)

TWA

1 ppm  
0.9 mg/m<sup>3</sup>  
0.75 ppm

STEL

0.03 mg/m<sup>3</sup>

TWA

0.01 mg/m<sup>3</sup>

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)****Components**

Formaldehyde (CAS 50-00-0)

**Type**

Ceiling

**Value**

1 ppm

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)

TWA

0.3 ppm

STEL

0.03 mg/m<sup>3</sup>

TWA

0.01 mg/m<sup>3</sup>

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Aluminium hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm	
Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value
Formaldehyde (CAS 50-00-0)	Ceiling	1.5 ppm
	STEL	1 ppm
Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)	STEL	0.03 mg/m3
	TWA	0.01 mg/m3

**Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value	Form
Aluminium hydroxide (CAS 21645-51-2)	TWA	10 mg/m3	Total dust.
Formaldehyde (CAS 50-00-0)	Ceiling	3 mg/m3	
		2 ppm	
Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)	STEL	0.03 mg/m3	
	TWA	0.01 mg/m3	

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

Components	Type	Value
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****Canada - Alberta OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Canada - British Columbia OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Canada - Manitoba OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Canada - Ontario OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Canada - Quebec OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Canada - Saskatchewan OELs: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Can be absorbed through the skin.

**Control banding approach**

Polymyxin B: Zoetis OEB 2 - Sensitizer (control exposure to the range of 100ug/m3 to < 1000ug/m3, provide additional precautions to protect from skin contact)

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section. General ventilation normally adequate.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

If contact is likely, safety glasses with side shields are recommended.

<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves. Wear impervious gloves if skin contact is possible.
<b>Other</b>	Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Freeze-dried preparation plus liquid bacterin
<b>Physical state</b>	Solid, Liquid.
<b>Form</b>	Solid. Liquid.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	6 - 8
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	> 100 °C (> 212 °F)
<b>Flash point</b>	Non-flammable
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>Specific gravity</b>	0.8 - 1.2

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
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<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials. Sunlight. Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.
<b>Incompatible materials</b>	Strong oxidising agents. This material can be denatured or inactivated by a variety of organic solvents, salts or heavy metals.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Skin contact** Prolonged skin contact may cause temporary irritation.  
 Formaldehyde Species: Rabbit  
 Severity: Moderate Severe

Neomycin sulfate Species: Rabbit  
 Severity: Moderate

**Eye contact** Direct contact with eyes may cause temporary irritation.  
 Sodium O-(ethylmercurithio)benzoate Species: Rabbit  
 Severity: Mild

Neomycin sulfate Species: Rabbit  
 Severity: Minimal

Formaldehyde Species: Rabbit  
 Severity: Severe

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients.

### Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test results
EDTA (CAS 60-00-4)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	4500 mg/kg
Formaldehyde (CAS 50-00-0)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	800 mg/kg
<b>Chronic</b>		
<b>Inhalation</b>		
LOAEL	Mouse	15 ppm, 2 years Tumours
	Rat	15 ppm, 9 days Respiratory system
		6 ppm, 2 years Tumours
Neomycin sulfate (CAS 1405-10-3)		
<b>Acute</b>		
<b>Intraperitoneal</b>		
LD50	Mouse	116 mg/kg

Components	Species	Test results
<b>Oral</b>		
LD50	Mouse	2880 mg/kg
	Rat	2750 mg/kg
<b>Subcutaneous</b>		
LD50	Mouse	275 mg/kg
	Rat	633 mg/kg
<b>Chronic</b>		
<b>Oral</b>		
NOAEL	Cat	12 mg/kg/day, 12 months (Target organ(s): Blood forming organs)
	Rat	25 mg/kg/day, 2 years (Not carcinogenic)
<b>Subacute</b>		
<b>Oral</b>		
NOAEL	Dog	100 mg/kg/day, 6 weeks (No effects at maximum dose)
<b>Subchronic</b>		
<b>Oral</b>		
NOAEL	Guinea Pig	10 mg/kg/day, 3 months (No effects at maximum dose)
<b>Subcutaneous</b>		
LOAEL	Dog	20 mg/kg/day, 3 months (Target organ(s): Kidney)
	Guinea Pig	10 mg/kg/day, 3 months (Target organ(s): Kidney)
Polymyxin B (CAS 1404-26-8)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Mouse	790 mg/kg
<b>Other</b>		
LD50	Mouse	3980 ug/kg
<b>Subcutaneous</b>		
LD50	Rat	50 mg/kg
Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	75 mg/kg
<b>Subcutaneous</b>		
LD50	Rat	98 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Corrosivity</b>		
Neomycin sulfate	Species: Rabbit	Severity: Moderate
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Eye contact</b>		
Sodium O-(ethylmercurithio)benzoate	Species: Rabbit	Severity: Mild
Neomycin sulfate	Species: Rabbit	Severity: Minimal

**Eye contact**  
Formaldehyde

Species: Rabbit  
Severity: Severe

**Respiratory or skin sensitisation**

**ACGIH sensitisation**

FORMALDEHYDE (CAS 50-00-0)

Dermal sensitization  
Respiratory sensitisation

**Canada - British Columbia OELs: Respiratory or skin sensitiser**

Formaldehyde (CAS 50-00-0)

Capable of causing respiratory, dermal or conjunctival sensitization.

**Canada - Manitoba OELs Hazard: Dermal sensitization**

Formaldehyde (CAS 50-00-0)

Dermal sensitization

**Canada - Manitoba OELs Hazard: Respiratory sensitization**

Formaldehyde (CAS 50-00-0)

Respiratory sensitisation

**Canada - Saskatchewan OELs Hazard Data: Sensitiser**

Formaldehyde (CAS 50-00-0)

Sensitiser.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

This product contains formaldehyde and merthiolate which are considered to be skin sensitizers. This product is not expected to cause skin sensitisation.

**Skin sensitisation**

Neomycin sulfate

Severity: positive

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

Neomycin sulfate

Bacterial Mutagenicity (Ames)  
Result: negative  
Species: Salmonella , E. coli

Formaldehyde

In Vitro Bacterial Mutagenicity (Ames)  
Result: positive  
Species: Bacteria

Neomycin sulfate

In Vitro Chromosome Aberration  
Result: positive  
Species: Human lymphocytes

Formaldehyde

In Vitro Chromosome Aberration  
Result: positive  
Species: Rodent

In Vitro Sister Chromatid Exchange  
Result: positive  
Species: Rodent

Polymyxin B

In vitro  
Result: negative

Formaldehyde

In Vivo Chromosome Aberration  
Result: positive  
Species: Not specified

Neomycin sulfate

In Vivo Cytogenetics  
Result: negative  
Species: Mouse

Polymyxin B

In vivo  
Result: negative

Neomycin sulfate

Mammalian Cell Mutagenicity  
Result: negative  
Species: Chinese Hamster Ovary (CHO) cells



**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. No known carcinogens are present at greater than 0.1%.

**ACGIH Carcinogens**

Aluminium hydroxide (CAS 21645-51-2)

A4 Not classifiable as a human carcinogen.

Formaldehyde (CAS 50-00-0)

A2 Suspected human carcinogen.

**Canada - Alberta OELs: Carcinogen category**

Formaldehyde (CAS 50-00-0)

Suspected human carcinogen.

**Canada - Manitoba OELs: carcinogenicity**

Aluminium hydroxide (CAS 21645-51-2)

Not classifiable as a human carcinogen.

Formaldehyde (CAS 50-00-0)

Suspected human carcinogen.

**Canada - Quebec OELs: Carcinogen category**

Formaldehyde (CAS 50-00-0)

Suspected carcinogenic effect in humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Formaldehyde (CAS 50-00-0)

1 Carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Formaldehyde (CAS 50-00-0)

Known To Be Human Carcinogen.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Developmental effects**

Formaldehyde

185 mg/kg/day Embryo / Fetal Development, Not teratogenic

Maternal toxicity

Species: Mouse

Organ: Oral

40 ppm Embryo / Fetal Development, Not Teratogenic

Maternal Toxicity

Species: Rat

Organ: Inhalation

Neomycin sulfate

6 mg/kg/day Prenatal & Postnatal Development,

Developmental toxicity

Result: LOAEL

Species: Rat

Organ: Subcutaneous

**Reproductivity**

Neomycin sulfate

25 mg/kg/day 2 Gen Reproductive Toxicity, Fetotoxicity

Result: NOAEL

Species: Rat

Organ: Oral

25 mg/kg/day Reproductive & Fertility, No effects at maximum dose

Result: NOAEL

Species: Rat

Organ: Oral

4000 mg/l Reproductive & Fertility, No effects at maximum dose

Result: NOAEL

Species: Mouse

Organ: Oral

**Specific target organ toxicity - single exposure**

Not classified.

**Specific target organ toxicity - repeated exposure**

Not classified.

**Aspiration hazard**

Not an aspiration hazard.

**Further information**

The antigens included in this product are non-infectious. All have been prepared from modified or inactivated preparations of microorganisms.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Avoid release to the environment.

Components		Species	Test results
EDTA (CAS 60-00-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	113 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	34 - 62 mg/l, 96 hours
Formaldehyde (CAS 50-00-0)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours
Neomycin sulfate (CAS 1405-10-3)			
	EC50	Activated sludge	399 mg/l
		Daphnia magna (Water Flea)	68 mg/l, 48 Hours
	NOEC	Salmo gairdneri (Trout)	> 1000 mg/l, 96 Hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

Neomycin sulfate 1.2, Log D, predicted, pH 7.4

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company. This product contains trace quantities of mercury, releases to the environment should be avoided.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### TDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

### Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### Controlled Drugs and Substances Act

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Substance subject to notification or consent.

#### Greenhouse Gases

Not listed.

#### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Formaldehyde (CAS 50-00-0)

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8)

#### Precursor Control Regulations

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Sodium O-(ethylmercurithio)benzoate (CAS 54-64-8) Pesticide

#### Kyoto protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

### Issue date

06-May-2017

### Version No.

01

### Disclaimer

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.

### Revision information

Product and Company Identification: Synonyms  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties