

# SAFETY DATA SHEET

Zoetis New Zealand Limited



## Section 1: Identification of the Substance and Supplier

<b>Trade Name:</b>	<b>TEATSEAL®</b>
<b>ACVM Registration No.:</b>	A000888
<b>Classification:</b>	Restricted Veterinary Medicine (RVM)
<b>Recommended Use:</b>	Intramammary antibiotic for prevention of mastitis during the non-lactating (dry) period in lactating heifers (first calvers) and cows, either alone or immediately following ORBENIN® Enduro or ORBENIN® Dry Cow, and for the prevention of peri-calving mastitis in maiden heifers.
<b>Company Details:</b>	Zoetis New Zealand Limited
<b>Address:</b>	Level 4, 8 Mahuhu Crescent Auckland Central Auckland 1010 New Zealand
<b>Telephone No.:</b>	0800 963 847 (Business Hours)
<b>Emergency Telephone No.:</b>	National Poisons Centre: 0800 POISON (0800 764 766) Emergency Services: In an emergency dial 111
<b>Date of Preparation:</b>	01 July 2019

## Section 2: Hazards Identification

<b>Hazard Classification:</b>	5.1.1B
<b>Priority Identifier(s):</b>	WARNING - KEEP OUT OF REACH OF CHILDREN
<b>Secondary Identifier(s):</b>	5.1.1B Oxidiser; may intensify fire.

## Section 3: Composition / Information on Ingredients

### Chemical Identity of Ingredients

Ingredient	CAS No.	Concentration
Bismuth subnitrate	1304-85-4	650 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

<b>Necessary First Aid Measures:</b>	<p><b>For advice contact the National Poisons Centre at 0800 POISON (0800 764 766) or a doctor immediately.</b> 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.</p> <p><b>Ingestion:</b> 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.</p> <p><b>Eye Contact:</b> 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.</p> <p><b>Skin Contact:</b> Remove any contaminated clothing and wash the affected area immediately with soap and water. If symptoms develop seek medical advice immediately.</p> <p><b>Inhalation:</b> Move the patient to fresh air. If symptoms develop seek medical advice immediately.</p>
<b>Poisoning Symptoms:</b>	<p>Symptoms of overdose may include progressive mental confusion, irregular muscle contractions or jerks, disordered gait, slurred speech, loss of consciousness, coma, and death. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.</p>
<b>Workplace Facilities:</b>	<p>No specific facilities required. Standard emergency equipment must be available.</p>
<b>Hygiene Practices:</b>	<p>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.</p>
<b>Notes for Medical Personnel:</b>	<p>Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Note the nature of this product.</p>

## Section 5: Fire-Fighting Measures

<b>Type of hazard:</b>	<p>There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.</p>
<b>Fire Hazard Properties:</b>	<p>Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled.</p>
<b>Regulatory Requirements:</b>	<p>Not applicable.</p>
<b>Extinguishing Media &amp; Methods:</b>	<p>Use carbon dioxide, dry chemical, foam, or water fog to extinguish fires involving this product.</p>
<b>Hazchem Code:</b>	<p>Not allocated.</p>
<b>Recommended Protective Clothing:</b>	<p>During large-scale fire fighting operations wear approved positive pressure, self-contained breathing apparatus and full protective turn-out gear.</p>

## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	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.
<b>Environmental Precautions:</b>	Prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.
<b>Procedure for Spills:</b>	<ol style="list-style-type: none"><li>1. Non-essential personnel should be evacuated from the affected area.</li><li>2. Stop leak and contain the source of spill if it is safe to do so. Reposition any leaking containers to minimise further leakage.</li><li>3. Absorb the spill with an absorbent material (e.g. sand).</li><li>4. Collect the spilled material into labelled containers for disposal, minimising dust generation.</li><li>5. Decontaminate the spill area thoroughly with detergent and water, preventing runoff from entering drains.</li></ol>
<b>Procedure for Disposal:</b>	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

<b>Precautions for Safe Handling:</b>	No special technical protective measures required. Take any necessary precautions to prevent contact with combustible materials.
<b>Regulatory Requirements:</b>	Not required.
<b>Handling Practices:</b>	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.
<b>Approved Handlers:</b>	This product requires an approved handler at quantities greater than 500kg.

### Storage

<b>Conditions for Safe Storage:</b>	Store below 30°C (Room Temperature). Keep out of reach of children. Store in a cool, dry, well-ventilated area away from heat, sparks, open flames and combustible materials.
<b>Store Site Requirements:</b>	Signage is required by sites holding in excess of 500 kg of this product. Fire extinguishers are required by sites holding in excess of 200 kg of this product.
<b>Packaging:</b>	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

<b>Workplace Exposure Standards:</b>	A time weighted average (TWA) concentration for an 8-hour day and a 5-day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts or mists when limits have not otherwise been established.
<b>Application in the Workplace:</b>	The nature of this product makes it unlikely that this level will be approached during normal handling.
<b>Exposure Standards Outside the Workplace:</b>	None set.
<b>Engineering Controls:</b>	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.
<b>Personal Protection:</b>	<p>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.</p> <p><b>Hands:</b> Impervious gloves are recommended if skin contact is possible and for bulk processing operations.</p> <p><b>Eyes:</b> It is always prudent to utilise protective eyewear.</p> <p><b>Skin:</b> 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.</p> <p><b>Respiratory:</b> Respiratory protection is not normally required; however, if necessary utilise an air-purifying respirator that complies with NZ standards.</p>
<b>General Hygiene:</b>	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

<b>Appearance:</b>	White creamy paste
<b>Odour:</b>	Mild odour
<b>Specific Gravity / Density:</b>	Not tested. Bismuth subnitrate has a density of 4.9 g/mL
<b>Melting Point:</b>	No specific data. Liquid at normal temperatures
<b>Boiling Point:</b>	No specific data. Expected to decompose before boiling
<b>pH:</b>	Bismuth subnitrate tests slightly acid with moistened litmus
<b>Solubility in Water:</b>	Insoluble
<b>Flashpoint:</b>	Not applicable. This product is not flammable
<b>Oxidising Properties:</b>	Not applicable. This product is not an oxidiser
<b>Corrosive Properties:</b>	Not applicable. This product is not corrosive
<b>Vapour Pressure:</b>	No data available

## Section 10: Stability and Reactivity

<b>Stability of the Substance:</b>	This product is stable under normal conditions of use.
<b>Conditions to Avoid:</b>	This product should be kept away from heat, sparks, and open flames. Store this product below 30°C
<b>Material to Avoid:</b>	Strong oxidising agents and combustible materials.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Water, bismuth compounds.
<b>Hazardous Polymerisation:</b>	This product is unlikely to spontaneously polymerise.
<b>Specific Data:</b>	No specific data available.

## Section 11: Toxicological Information

### HSNO Classifications

Not applicable. This product is not classified as toxic.

### Acute Effects

<b>Ingestion:</b>	Bismuth salts are poorly absorbed. Should absorption occur, symptoms may include loss of appetite, headache, skin rashes, kidney damage, and rarely mild jaundice. Formation of nitrites has produced blood disorders such as methemoglobinemia and carboxyhemoglobinemia in humans.
<b>Eye Contact:</b>	This product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.
<b>Skin Contact:</b>	This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.
<b>Inhalation:</b>	Available data indicates that this product is not harmful.

### Chronic / Long Term Effects

No data for health effects associated with long term ingestion, skin or eye contact, or inhalation is available. No significant ingredient is classified as carcinogenic by NOHSC, NTP or IARC.

## 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	
<b>Toxicity to Birds:</b>	Not applicable
<b>Acute Toxicity to Fish:</b>	Not applicable
<b>Toxicity to Algae:</b>	Not applicable
<b>Toxicity to Aquatic Invertebrates:</b>	Not applicable
<b>Toxicity to Soil Dwelling Organisms:</b>	Not applicable
<b>Acute Toxicity to Bees:</b>	Not applicable

Environmental Fate
No additional information available.

Section 13: Disposal Considerations	
<b>Product Disposal:</b>	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.
<b>Container Disposal:</b>	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	
<b>UN No.:</b>	Not applicable. This product is not a dangerous good.
<b>Class:</b>	Not applicable. This product is not a dangerous good.
<b>Packing Group:</b>	Not applicable. This product is not a dangerous good.
<b>Proper Shipping Name:</b>	Not applicable. This product is not a dangerous good.

Section 15: Regulatory Information	
<b>HSNO Approval No.:</b>	HSR002012
<b>HSNO Controls:</b>	See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls
<b>ACVM Registration No.:</b>	A007294
<b>ACVM Controls:</b>	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> 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:**

<b>Zoetis New Zealand Limited:</b>	0800 963 847 (Business Hours)
<b>National Poisons Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Services:</b>	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.

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