

# SAFETY DATA SHEET



## 1. Identification

<b>Product identifier</b>	<b>Bovatec Lasalocid Sodium Feed Additive Liquid 200g-L</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	BOVATEC * TAUROTEC * Bovatec 20% * Taurotec 20% * Taurotec Liquid Premix
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Recommended use</b>	Veterinary product ( Feed additive )
<b>Restrictions on use</b>	Not for human use
<b>Details of manufacturer or importer</b>	
<b>Manufacturer</b>	
<b>Company Name (AU)</b>	Zoetis Australia Pty Ltd ABN 94 156 476 425 Level 6, 5 Rider Boulevard Rhodes NSW 2138 AUSTRALIA
<b>Tel</b>	1800 814 883
<b>Fax</b>	(02) 8876 0444
<b>Email</b>	australia.animalhealth@zoetis.com
<b>Emergency Phone</b>	1800 814 883 (all hours)
<b>Police and Fire Brigade</b>	Dial 000
<b>If ineffective</b>	Dial Poisons Information Centre (13 1126 from anywhere in Australia)

## 2. Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1B
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

### Label elements, including precautionary statements

#### Hazard symbol(s)



Health hazard

Exclamation mark

#### Signal word

Danger

#### Hazard Statement(s)

Harmful if swallowed. Causes serious eye irritation. May damage fertility or the unborn child.  
Harmful to aquatic life with long lasting effects.

#### Precautionary Statement(s)

##### Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Use personal protective equipment as required.

<b>Response</b>	IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards which do not result in classification</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Lasalocid Sodium	25999-20-6	20
Propylene glycol	57-55-6	20-30*
Water	7732-18-5	

**Composition comments** \*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Personal protection for first-aid responders** IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**Symptoms caused by exposure** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Medical attention and special treatment** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Alcohol resistant foam. 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.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Hazchem Code** None.

**General fire hazards** No unusual fire or explosion hazards noted.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Ventilate the contaminated area. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

### Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.

## 7. Handling and storage

### Precautions for safe handling

Provide adequate ventilation. Do not handle until all safety precautions have been read and understood. wear personal protective equipment. Do not breathe mist or vapour. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Keep containers tightly closed in a cool, well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls and personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m <sup>3</sup>	Total vapour and particulates.
		10 mg/m <sup>3</sup>	Particulate.
		150 ppm	Total vapour and particulates.

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m <sup>3</sup>	Total vapour and particulates.
		10 mg/m <sup>3</sup>	Particulate.
		150 ppm	Total vapour and particulates.

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m <sup>3</sup>	Total vapour and particulates.
		10 mg/m <sup>3</sup>	Particulate.
		150 ppm	Total vapour and particulates.

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

**Control banding approach** Lasalocid sodium - Zoetis OEB 3 (control exposure to the range of 10ug/m<sup>3</sup> to < 100ug/m<sup>3</sup>)

**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. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, for example personal protective equipment (PPE)**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves. Impervious gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. 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. Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Observe any medical surveillance requirements. Keep away from food and drink. 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**

**Appearance**

**Physical state** Liquid.

**Form** Liquid.

**Colour** Off-white to yellow

**Odour** Slight Characteristic odor

**Odour threshold** Not available.

**pH** 5 - 8

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit – upper (%)** Not available.

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** emulsifiable

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

Viscosity Not available.

**Other physical and chemical parameters**

Dissociation constant 6 (lasalocid sodium)  
Explosive properties Not explosive.  
Oxidising properties Not oxidising.  
Specific gravity 1.04

**10. Stability and reactivity**

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.  
Chemical stability Material is stable under normal conditions.  
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.  
Conditions to avoid Contact with incompatible materials. Keep away from heat, spark, open flames and other sources of ignition.  
Incompatible materials Strong oxidising agents. Strong acids. Bases.  
Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon dioxide, carbon monoxide, and oxides of nitrogen.

**11. Toxicological information**

**Information on possible routes of exposure**

Inhalation Prolonged inhalation may be harmful.  
Skin contact Prolonged skin contact may cause temporary irritation.  
Propylene glycol Species: Rabbit  
Severity: Mild  
Lasalocid Sodium Species: Rabbit  
Severity: Non-irritating  
Eye contact Causes serious eye irritation.  
Lasalocid Sodium Species: Rabbit  
Severity: Irritant  
Propylene glycol Species: Rabbit  
Severity: Mild

Ingestion Harmful if swallowed.

Symptoms related to exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Acute toxicity Harmful if swallowed.

Product	Species	Test results
Bovatec Lasalocid Sodium Feed Additive Liquid 200g-L		
<b>Acute</b>		
<b>Dermal</b>		
LD50		> 5000 mg/kg (Calculated ATE)
<b>Inhalation</b>		
LC50		> 10 mg/l (Calculated ATE)
<b>Oral</b>		
LD50		610 mg/kg (Calculated ATE)
Components	Species	Test results
Lasalocid Sodium (CAS 25999-20-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	1400 mg/kg
<b>Inhalation</b>		
LC50	Rat	2.65 mg/l, 4 hours

Components	Species	Test results
<b>Oral</b>		
LD50	Mouse	146 mg/kg
	Rat	122 mg/kg
<b>Chronic</b>		
<b>Oral</b>		
NOAEL	Mouse	120 mg/kg/day, 2 years (Not carcinogenic)
NOEL	Rat	10 mg/kg/day, 2 years (Not carcinogenic)
<b>Subchronic</b>		
<b>Oral</b>		
NOEL	Dog	2 mg/kg/day, 13 weeks (Liver)
	Rat	1 mg/kg/day, 13 weeks (Blood forming organs)
Propylene glycol (CAS 57-55-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20800 mg/kg
<b>Oral</b>		
LD50	Dog	19 g/kg
	Guinea pig	18.4 g/kg
	Mouse	24900 mg/kg
		23.9 g/kg
	Rabbit	18 g/kg
	Rat	22000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Corrosivity</b>		
Lasalocid Sodium		Result: Non-irritating Species: Rabbit
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.	
<b>Eye contact</b>		
Lasalocid Sodium		Species: Rabbit Severity: Irritant
Propylene glycol		Species: Rabbit Severity: Mild
<b>Respiratory or skin sensitisation</b>		
<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.	
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.	
<b>Skin sensitisation</b>		
Lasalocid Sodium		GPMT Species: Guinea Pig Severity: negative
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Mutagenicity</b>		
Lasalocid Sodium		Chromosome Aberration Result: negative Species: Fungi Human Lymphocytes
		In Vitro Bacterial Mutagenicity (Ames) Result: negative Species: Salmonella , E. coli

**Mutagenicity**  
Lasalocid Sodium

In Vitro Mammalian Cell Mutagenicity  
Result: negative  
Species: Hamster Lung Cells

In Vitro Mitotic Gene Conversion  
Result: negative  
Species: Saccharomyces cerevisiae

Unscheduled DNA Synthesis  
Result: negative  
Species: Rat Hepatocyte

**Carcinogenicity**

Due to partial or complete lack of data the classification is not possible.

**Reproductive toxicity**

May damage fertility or the unborn child.

**Developmental effects**  
Lasalocid Sodium

0.5 mg/kg/day Embryo / Fetal Development, (Fetotoxicity, Maternal toxicity)  
Result: NOEL  
Species: Rabbit  
Organ: Oral

0.5 mg/kg/day Prenatal & Postnatal Development, (Embryotoxicity)  
Result: NOAEL  
Species: Rat  
Organ: Oral

3 mg/kg/day Embryo / Fetal Development, (Maternal Toxicity)  
Result: NOEL  
Species: Rat  
Organ: Oral

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**12. Ecological information**

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Avoid release to the environment.

Components	Species	Test results
Lasalocid Sodium (CAS 25999-20-6)	EC50	Activated sludge
		Daphnia magna (Water Flea)
		Scenedesmus subspicatus (Green Alga)
	LC50	Brachydanio rerio (Zebra fish)
	NOEC	Eisenia foetida (Earthworm)
Propylene glycol (CAS 57-55-6)		> 1000 mg/l, 3 Hours (OECD)
		5.4 mg/l, 48 Hours (OECD)
		2 mg/l, 72 Hours (OECD)
<b>Aquatic</b>		2.5 mg/l, 96 Hours (OECD)
		82.4 mg/kg, 28 Days (OECD)
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Fathead minnow (Pimephales promelas)

**Persistence and degradability**

**Biodegradability**

**Percent degradation (Aerobic biodegradation)**

Lasalocid Sodium

DT50, Soil (various), Readily biodegradable  
Result: 0.6-14.2 Days

## Biodegradability

### Percent degradation (Aerobic biodegradation)

Lasalocid Sodium

OECD 301F, Not readily biodegradable  
Result: 0% After 28 days

## Bioaccumulative potential

### Partition coefficient

#### n-octanol / water (log K<sub>ow</sub>)

Lasalocid Sodium

2.3, Log P @ pH 7

### Bioconcentration factor

#### (BCF)

Lasalocid Sodium

56 Predicted, (PBT Profiler)

## Mobility in soil

This product is miscible in water.

## 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 methods

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. Contract with a disposal operator licensed by the Law on Disposal and Cleaning.

### Residual waste

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. Empty containers should be taken to an approved waste handling site for recycling or disposal

## 14. Transport information

### ADG

Not regulated as dangerous goods.

### RID

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 established.

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

APVMA No. 52693

Poison Schedule (Product): Schedule 6

This SDS replaces version: Issued 24 August 2015

#### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.



**Australia Medicines & Poisons Appendix B**

Propylene glycol (CAS 57-55-6)

Low toxicity. General: Any use

**Australia Medicines & Poisons Appendix C**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix D**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix E**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix F**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix G**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix H**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix I**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix J**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix K**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 2**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 4**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 5**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 6**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 7**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 8**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 9**

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)**

Propylene glycol (CAS 57-55-6)

10000 - 99999 TONNES See the regulation for additional information.

Water (CAS 7732-18-5)

1000 - 9999 TONNES See the regulation for additional information.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**International regulations**

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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	Yes
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**

<b>Issue date</b>	01-November-2016
<b>Revision date</b>	03-November-2016
<b>Key abbreviations or acronyms used</b>	ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
<b>Disclaimer</b>	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.
<b>Revision information</b>	Toxicological Information: Toxicological Data