

SAFETY DATA SHEET



1. Identification

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

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1B
Environmental hazards	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.

Response

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.

Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.
Supplemental information	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

Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	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.
Ingestion	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. Rinse mouth.
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 under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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

For non-emergency personnel	Keep unnecessary personnel away.
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For emergency responders 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. Clean surface thoroughly to remove residual contamination.

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.

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 ³	Total vapour and particulates.
		10 mg/m ³	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 ³	Total vapour and particulates.
		10 mg/m ³	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/m³ to < 100ug/m³)

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		
Acute		
Dermal		
LD50		> 5000 mg/kg (Calculated ATE)
Inhalation		
LC50		> 10 mg/l (Calculated ATE)
Oral		
LD50		610 mg/kg (Calculated ATE)
Components	Species	Test Results
Lasalocid sodium (CAS 25999-20-6)		
Acute		
Dermal		
LD50	Rabbit	1400 mg/kg
Inhalation		
LC50	Rat	2.65 mg/l, 4 hours
Oral		
LD50	Mouse	146 mg/kg
	Rat	122 mg/kg
Chronic		
Oral		
NOAEL	Mouse	120 mg/kg/day, 2 years (Not carcinogenic)
NOEL	Rat	10 mg/kg/day, 2 years (Not carcinogenic)
Subchronic		
Oral		
NOEL	Dog	2 mg/kg/day, 13 weeks (Liver)

Components	Species	Test Results
	Rat	1 mg/kg/day, 13 weeks (Blood forming organs)
Propylene glycol (CAS 57-55-6)		
Acute		
Dermal		
LD50	Rabbit	20800 mg/kg
Oral		
LD50	Mouse	24900 mg/kg
	Rat	22000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Corrosivity		
Lasalocid sodium		Result: Non-irritating Species: Rabbit
Serious eye damage/irritation	Causes serious eye irritation.	
Eye contact		
Lasalocid sodium		Species: Rabbit Severity: Irritant
Propylene glycol		Species: Rabbit Severity: Mild
Respiratory or skin sensitisation		
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Skin Sensitisation		
Lasalocid sodium		GPMT Species: Guinea Pig Severity: Negative
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Mutagenicity		
Lasalocid sodium		Chromosome Aberration Result: Negative Species: Fungi Human Lymphocytes In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella , E. coli 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	> 1000 mg/l, 3 hours	
	NOEC	Eisenia foetida (Earthworm)	82.4 mg/kg, 28 days [mortality and weight]	
			41.2 mg/kg, 28 days [reproduction]	
	<i>Acute</i>	LC50	Eisenia foetida (Earthworm)	143.6 mg/kg, 48 hours
Aquatic <i>Acute</i>	Algae	Scenedesmus subspicatus (Green Alga)	3.1 mg/l, 72 hours [growth rate]	
			2 mg/l, 72 hours [biomass]	
	Crustacea	EC50	Daphnia magna (Water Flea)	5.4 mg/l, 48 hours
	Fish	LC50	Brachydanio rerio (Zebra fish)	2.5 mg/l, 96 hours
	Propylene glycol (CAS 57-55-6) Aquatic <i>Acute</i>	Crustacea	EC50	Water flea (Daphnia magna)
Fish		LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours

Persistence and degradability**Biodegradability****Percent Degradation (Aerobic Biodegradation)**

Lasalocid sodium

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

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

Bioaccumulative potential See below

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

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.

Adsorption

Soil/Sediment Sorption - Log Koc

Lasalocid sodium

2.93 - 3.21 OECD 106

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. 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.

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.

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

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

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Propylene glycol (CAS 57-55-6)

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 10

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 Deleting 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

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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 01-November-2016

Revision date 23-November-2021

Key abbreviations or acronyms used ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

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 Identification: Restrictions on use
Composition / Information on Ingredients: Disclosure Overrides
First-aid measures: Ingestion
First-aid measures: Personal protection for first-aid responders
Accidental release measures: Methods and materials for containment and cleaning up
Accidental release measures: For emergency responders
Accidental release measures: For non-emergency personnel
Toxicological Information: Toxicological Data
Ecological information: Bioaccumulative potential
Disposal considerations: Disposal methods
Transport Information: Material Transportation Information
Regulatory Information: Other
Regulatory information: National regulations