



## SAFETY DATA SHEET

A18224/04/AUS

### BAYMEC LV POUR-ON FOR DAIRY AND BEEF CATTLE

#### SECTION 1 – IDENTIFICATION, CONTACTS

Bayer Australia Ltd  
875 Pacific Highway  
Pymble NSW 2073

**Emergency Telephone Number**

1800 033 111  
24 hour Emergency Service Australia Wide, Toll Free

**Contact Point (for non-emergency calls)**

Animal Health Division  
(02) 9391 6000

Full Product Name	<b>BAYMEC LV POUR-ON FOR DAIRY AND BEEF CATTLE</b>
Other Names	N/A
Product Use	<b>FOR ANIMAL TREATMENT ONLY</b> For the treatment and control of ivermectin sensitive internal and external parasites of beef and dairy cattle.
Creation Date	28 <sup>th</sup> March 2011
Revision Date	1 November 2016

<b>SECTION 2 – HAZARD IDENTIFICATION</b>	
Hazard Classification	<p>CLASSIFIED AS A HAZARDOUS SUBSTANCE NOT CLASSIFIED AS DANGEROUS GOODS when transported by road or rail within Australia under Special Provision AU01 of the Australian Dangerous Goods Code, 7th Edition.</p> <p>CLASSIFIED AS DANGEROUS GOODS when transported by sea or air in containers over 5L according to limited quantities regulations.</p>
GHS-Classification	<p><b>Acute Toxicity (Oral) Category 4</b> <b>Eye irritation Category 2B</b> <b>Reproductive toxicity, Category 1B</b> <b>Hazardous to the aquatic environment, Category 1</b></p>
Signal Word	<b>Danger</b>
Hazard Statements	<p><b>H302 Harmful if swallowed</b> <b>H320 Causes eye irritation</b> <b>H360 May damage fertility or the unborn child</b> <b>H400 Very toxic to aquatic life.</b></p>
Precautionary statements	<p><b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection.</p> <p><b>Response:</b> P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + 351 +337 IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists contact a doctor/physician P330 Rinse mouth P314 Get medical advice/attention if you feel unwell. P391 Collect spillage.</p> <p><b>Disposal:</b> P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>

<b>SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Hazardous Components	<p><b>Ivermectin</b> Concentration [Weight percent] <math>\geq 0.0025</math> - <math>&lt; 3</math> CAS-No.: 70288-86-7 CAS name: 22,23-Dihydroavermectin B1 GHS Classification: Acute toxicity, Oral (Category 1) Serious eye damage (Category 1) Germ cell mutagenicity (Category 1B) Reproductive toxicity (Category 1B) Hazardous to the aquatic environment, Category 1 (H400)</p> <p><b>Diethylene glycol butyl ether</b> Concentration [Weight percent] 10-20 CAS-No.: 112-34-5 CAS name: 2-(2-Butoxyethoxy)ethanol GHS Classification: Eye irritation (Category 2)</p>

<b>SECTION 4 – FIRST AID MEASURES</b>	
Label Regulated First Aid Statement	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.
Scheduled Poisons	Poison Schedule S5.  Poisons Information Centres in each State capital city can provide additional assistance for scheduled poisons. Phone 131126.
Inhalation	Move individual to fresh air. Seek medical attention if breathing difficulty occurs.
Skin contact	Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Seek medical attention if irritation develops.
Eye contact	Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist (eye doctor) or other physician if irritation persists.
Ingestion	If poisoning occurs contact a doctor or the Poisons Information Centre Ph. 13 11 26.
Advice to doctor	No specific antidote exists. If a large amount of ivermectin is consumed, neurological signs may develop. Give supportive and symptomatic therapy as required.

<b>SECTION 5 – FIRE FIGHTING MEASURES</b>	
Flammability	Non-flammable.
Extinguishing Media	Use water spray, foam, powder and carbon dioxide fire extinguishers appropriate to the surrounding area. Equipment should be thoroughly decontaminated after use.
Fire and Explosion Hazards	May emit poisonous fumes on decomposition.
Hazardous Combustion Products	Non combustible. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. This may include carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.
Fire Fighting	Wear self-contained breathing apparatus and full protective clothing in accordance with normal fire-fighting procedures.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Accidental Release	<p><u>Emergency Procedures:</u> None applicable</p> <p><u>Method of Containment and Clean up Procedures</u></p> <p>Clean up spills immediately. Absorb small spills using suitable absorbing material and place in a sealed container for disposal. Contain large spills and transfer to an appropriate container for disposal. Residual surface material should be removed with towels moistened with methanol. Ivermectin is very toxic to certain aquatic species. Avoid contact of spilled materials and runoff with soil and surface waterways. Do not flush into drains or natural waterways or areas draining into potable water supplies. Use suitable protective equipment. Contact emergency response personnel for large spills. Keep unnecessary persons away.</p>
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**SECTION 7 – HANDLING AND STORAGE**

Safe Handling	Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and rubber gloves. Wash hands after use. After each day's use wash gloves.
Storage	Store below 30°C (Room temperature) in a dry place away from direct sunlight. Store in original container that is clearly labeled and free from leaks.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Exposure Limits	Exposure limits have not been established for this formulation.
Exposure controls	<p><b>Appropriate engineering controls</b> Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.</p> <p><b>Personal protective equipment</b></p> <p><b>Eye/face protection</b> Face shield and safety glasses</p> <p><b>Skin protection</b> Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p><b>Body Protection</b> Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p><b>Respiratory protection</b> Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator.</p>

**SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES**

Physical State	Liquid.
Colour	A slightly yellow coloured liquid.
Odour	Mild, aromatic odour.
Solubility in water	Slightly soluble.
Boiling point	Boils at about 100°C at 100kPa.
Flash point	Will not burn.

**SECTION 10 – STABILITY & REACTIVITY**

Chemical Stability	Stable under normal ambient and anticipated storage conditions of temperature and pressure.
Conditions to Avoid	None known.
Incompatible Materials	Not applicable.
Hazardous Decomposition	Decomposition may produce toxic fumes of carbon dioxide (CO <sub>2</sub> ) and other pyrolysis products typical of burning organic material. May emit poisonous fumes.
Hazardous Reactions	Not applicable.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Reproductive Effects	Ivermectin may cause harm to the unborn child and to breastfed babies. Avoid contact while pregnant or nursing. Use personal protective equipment as required. Praziquantel has not been shown to produce reproductive or teratogenic effects.
Mutagenicity	None of the ingredients of the formulation have been shown to produce mutagenic effects.
Carcinogenic Effects	Ivermectin has been shown in animal tests to have no carcinogenic potential.
Health Hazard Information	<p><b>ACUTE</b></p> <p><b>Swallowed</b></p> <p>Toxic effects may result from the accidental ingestion of the material. The most common side effect is gastrointestinal discomfort. Other symptoms include watery eyes, shortness of breath, nasal congestion, choking, coughing and wheezing.</p> <p><b>Eye</b></p> <p>The material may be irritating to the eye, with prolonged contact causing inflammation.</p> <p><b>Skin</b></p> <p>Skin contact may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis.</p>

**SECTION 11 – TOXICOLOGICAL INFORMATION (cont.)****Inhaled**

Not normally a hazard due to non-volatile nature of product. The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation

**CHRONIC**

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures.

**Ivermectin:**

Oral (rat) LD50: 50 mg/kg

Dermal (rat) LD50: >660 mg/kg

Dermal (rabbit) LD50: 406 mg/kg

Oral (dog) LD50: 80 mg/kg

Oral (monkey) LD50: >24 mg/kg

**SECTION 12 – ECOLOGICAL INFORMATION****Ecotoxicity**

This product is very toxic to aquatic organisms.  
Daphnia magna LC<sub>50</sub> 48 hours = 0.025 ppb; NOEL = 0.01 ppb;  
Rainbow trout LC<sub>50</sub> 96 hours = 3.0 ppb;  
Bluegill sunfish LC<sub>50</sub> 96 hours = 4.8 ppb.

**Persistence and degradability**

Ivermectin photodegrades rapidly in the environment and is metabolised in the soil. Water solubility is limited and it binds to soil very tightly. It does not bioconcentrate in fish and is not taken up from soil to plants. Both aquatic and terrestrial studies confirm rapid degradation of Ivermectin in the environment and lack of accumulation and persistence.

**SECTION 13 – DISPOSAL INFORMATION****Spills and disposal**

Clean up spills immediately. Shake and empty contents into medicated water. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Do not allow product to contaminate waterways or sewage disposal areas. Used needles should immediately be placed in a designated and appropriately labeled "sharps" container.

**SECTION 14 – TRANSPORT INFORMATION****UN No**

3082

**UN Proper Shipping Name**

Environmentally Hazardous Substance, Liquid, NOS (Ivermectin)

**Class & Sub. Risk**

9

**Packaging Group**

III

**Hazchem Code**

3Z

NOT CLASSIFIED AS DANGEROUS GOODS when transported by road or rail within Australia under Special Provision AU01 of the Australian Dangerous Goods Code, 7th Edition.

CLASSIFIED AS DANGEROUS GOODS when transported by sea or air in containers over 5L.

**SECTION 15 – REGULATORY INFORMATION**

Poisons Schedule	Schedule 5
APVMA Registration	The product is registered by the APVMA.
Registration Number	64610
Labelling	All necessary directions, precautions and warnings for normal use of the product are included on the product label.

**SECTION 16 – OTHER INFORMATION**

Summary of Changes	GHS Update
Acronyms	<p><b>ADG</b> Code Australian Code for the Transport of Dangerous Goods by Road and Rail</p> <p><b>APVMA</b> Australian Pesticides and Veterinary Medicines Authority</p> <p><b>CAS</b> Chemical Abstracts Service Registry Number</p> <p><b>GHS</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HDPE</b> High density polyethylene</p> <p><b>LDPE</b> Low density polyethylene</p> <p><b>OECD</b> Organisation for Economic Co-operation and Development</p> <p><b>STOT</b> Specific Target Organ Toxicity</p> <p><b>SUSDP</b> Standard for the Uniform Scheduling of Drugs and Poisons</p> <p><b>TWA</b> Time Weighted Average – average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.</p> <p><b>UN Number</b> United Nations number</p>
Disclaimer	<p>This Safety Data Sheet has been developed according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Third revised edition. United Nations, 2009. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this Safety Data Sheet is to describe product in terms of their safety requirements. Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use of the product. The physical data shown herein are typical values based on material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof. Due care should be taken to make sure that the use or disposal of this product and / or its packaging is in compliance with relevant Federal, State and Local Government regulations.</p>

**END OF SDS**