



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 14.10.2013

Revision: 14.10.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** PASTORAL AG IVERMECTIN INJECTION

**Recommended Use of the Chemical and Restriction on Use:**

Control and treatment of ivermectine sensitive internal and external parasites of cattle. Injection pack.

**Details of Manufacturer or Importer:**

Pastoral Ag Pty Ltd  
Suite 15 / 16 Princes Street  
Newport NSW 2106

**Phone Number:** +61 2 9999 6655

**Emergency telephone number:** +61 2 9999 6655

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



GHS08 health hazard

Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

**Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

70288-86-7	Ivermectin	1%
	Acute Tox. 2, H300; Acute Tox. 3, H311;  Repr. 1B, H360-H362	

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## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed rinse mouth with water. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray or fog, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:** No further relevant information available.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved full protective clothing. Evacuate all non-essential personnel from affected area.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Store below 30 °C (room temperature). Protect from direct sunlight. Keep away from strong oxidising agents.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards (Safe Work Australia):**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

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**Personal Protective Equipment (PPE):****Respiratory Protection:** Not required for normal use.**Skin Protection:**

PVC gloves, cotton overall and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information. Not required for normal use.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear, colourless, slightly viscous
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not determined.
<b>Melting point/Melting range:</b>	Non determined.
<b>Initial Boiling Point/Boiling Range:</b>	Non determined.
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	
<b>Decomposition Temperature:</b>	Not determined.
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour Pressure:</b>	Not determined.
<b>Relative Density:</b>	Not determined.
<b>Vapour Density:</b>	Not determined.
<b>Evaporation Rate:</b>	Not determined.
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (n-octanol/water):</b>	Not determined.

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** No hazardous reactions will occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Temperatures above 30 °C and direct sunlight.**Incompatible Materials:** Oxidising agents**Hazardous Decomposition Products:** No information available

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****70288-86-7 Ivermectin**

Oral	LD50	25 mg/kg (mouse) 50 mg/kg (rat) >15 mg/kg (human)
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Dermal	LD50	406 mg/kg (rabbit) >660 mg/kg (rat)
Inhalation	LC50 / 4 hr	0.4 mg/kg (rat)

**Acute Health Effects****Inhalation:** Not expected to be a hazard.**Skin:** Not expected to be a hazard.**Eye:** Not expected to be a hazard.**Ingestion:** Harmful if swallowed. May cause nausea and vomiting.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:**

May damage fertility or the unborn child.

Ivermectin is classified by Safe Work Australia as Toxic to Reproduction Category 2.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Prolonged skin contact may cause skin irritation, drying and cracking.**Existing Conditions Aggravated by Exposure:** No information available**12 . ECOLOGICAL INFORMATION****Ecotoxicity:** Ivermectin is very toxic to aquatic organisms.**Aquatic toxicity:****70288-86-7 Ivermectin**

EC50 / 48 hr	0.025 µg/L (daphnia)
LC50	0.3 µg/L (rainbow trout)

**Persistence and Degradability:**

Ivermectin is being chemically broken down by light rapidly in the environment and metabolised in soil.

**Bioaccumulative Potential:**

Ivermectin does not bioaccumulate. It does not bioconcentrate in fish and is not taken up from soil into plants.

**Mobility in Soil:** Water solubility of ivermectin is limited and it binds to soil very tightly.**13 . DISPOSAL CONSIDERATIONS****Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

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## 14 . TRANSPORT INFORMATION

**UN Number** Not applicable  
**Proper Shipping Name** Not applicable  
**Dangerous Goods Class** Not applicable  
**Packing Group:** Not applicable  
**Marine pollutant:** No

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

70288-86-7 Ivermectin

### Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

## 16 . OTHER INFORMATION

**Creation Date:** 14.10.2013**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)

### Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 IARC: International Agency for Research on Cancer  
 STEL: Short Term Exposure Limit  
 TWA: Time Weighted Average  
 NES: National Exposure Standard

### Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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