



SAFETY DATA SHEET

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|--|-------------------------|-----------------------------|--------------------------|
| Title: PARAMECTIN INJECTION FOR CATTLE | | Document: SDS-AU071 | |
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Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

| | |
|---|---|
| Product Name: | Paramectin Injection for Cattle |
| Product Identifier: | 10 mg/mL abamectin solution for injection. |
| Recommended Use: | A broad spectrum anthelmintic for the treatment and control of internal and external parasites of cattle. |
| Restrictions on Use: | For animal treatment only. |
| Company Identification: | Jurox Pty Limited (part of Zoetis) |
| Address: | 85 Gardiner Street, Rutherford, NSW 2320, Australia |
| Customer Service: | 1800 022 442 (Mon-Fri, 8:00am – 6:00pm AEST) |
| Email: | customerservice@jurox.com.au |
| National Poisons Information Centre: | 13 11 26 (all hours) |
| Emergency Telephone Number: | 1800 814 883 (all hours) |

Section 2: HAZARDS IDENTIFICATION

GHS Hazard Classifications: This product has been assessed according to GHS and is classified as follows:

| GHS Category | Hazard code | Hazard Statement |
|---|-------------|--|
| Acute Toxicity (Oral) Category 4 | H302 | Harmful if swallowed. |
| Specific target organ toxicity - repeated exposure Category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Chronic Aquatic Hazard Category 1 | H410 | Very toxic to aquatic life with long lasting effects. |

GHS Label Elements:

Signal Word: **WARNING**

Pictograms:



Exclamation
mark



Health
hazard



Environmental
hazard



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Precautionary Statements:

Prevention

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P260 Do not breathe vapours.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

Response

- P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
- P330 Rinse mouth.
- P314 Get medical advice/attention if you feel unwell.
- P391 Collect spillage.

Storage

No storage statements.

Disposal

- P501 Dispose of empty container by wrapping with paper and putting in garbage.

N.B.: The above statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

Other hazards: None known.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

| INGREDIENT | CAS No. | CONTENT |
|---|------------|---------|
| Abamectin | 71751-41-2 | 1% |
| Ingredients not contributing to the hazards | - | 99% |

Section 4: FIRST AID MEASURES

General Information: Consult the National Poisons Centre on 13 11 26 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

Symptoms and Effects of Exposure: None known.

Inhalation: If fumes, aerosols or combustion products are inhaled remove patient from contaminated area. Other measures are usually not necessary. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen. Seek medical assistance immediately.

Ingestion: If swallowed, DO NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.



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Skin: If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye: If eye contact occurs: Immediately flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing for at least 20 minutes. If eye irritation persists, get medical advice/attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Injection: Treat as for needle stick injury. Wash the wound thoroughly with soap and water or use a waterless cleanser or antiseptic if water is unavailable. Apply a dressing as necessary, and apply pressure through the dressing if bleeding is still occurring. Do not squeeze or rub the injury site. Dispose of the needle in a suitable sharps container and seek medical advice/attention if concerned.

Recommended First Aid Facilities: Ready access to running water and soap is required. Accessible eyewash is required.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point: No data available on the mixture.

Hazardous Combustion Products: If involved in a fire may emit toxic and corrosive fumes.

Extinguishing Media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Protective Equipment: Protective gloves and boots and breathing apparatus.

Hazchem Code: None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear gloves and appropriate protective clothing. Avoid breathing vapours and contact with skin and eyes. Clean up all spills immediately. For small spills, clean up spilled product then wipe area and put empty container in garbage. For large spills, exclude non-essential people from the area. Contain and absorb spill with sand, earth, inert material or vermiculite. Prevent spillage from entering drains or water courses and call emergency services.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise local authority.

Section 7: HANDLING AND STORAGE

Handling: Handle this product to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. Use in a well-ventilated area. Take care to avoid accidental self-injection. Do not allow clothing wet with material to stay in contact with skin. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.



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Storage: Keep out of reach of children. Store below 30°C (room temperature) in the carton to protect product from light. Keep away from foodstuffs.

Other Information: Avoid contact with incompatible substances as listed in Section 10. Always read the label before use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

Exposure Limits: No exposure limits have been assigned for this product or ingredients.

Engineering Controls: Use only in a well-ventilated area. Ensure that the work environment remains clean.

Personal Protective Equipment (PPE):

Eye Protection: Safety glasses with side shields or chemical goggles are recommended when handling bulk quantities of this product.

Skin Protection: When handling bulk quantities, prevent skin contact by wearing chemical protective gloves e.g. PVC. Wear safety gumboots e.g. rubber.

Respiratory Protection: Not required for the normal use of this product.

Other: When handling bulk quantities of this product, overalls, PVC apron, barrier cream, skin cleansing cream and eye wash unit may be required.



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---------------|
| Appearance: | Colourless to light yellow liquid with a mild odour | Upper / Lower Flammability Limits: | Not available |
| Odour: | Not available | Vapour Pressure: | Not available |
| Odour Threshold: | Not available | Vapour Density: | Not available |
| pH: | Not available | Relative Density / Specific Gravity: | Approx. 1.1 |
| Melting Point / Freezing Point: | Not available | Solubility: | Miscible |
| Boiling Point and Boiling Range: | Not available | Partition Coefficient (n-octanol/water): | Not available |
| Flash Point: | Not available | Auto-Ignition Temperature: | Not available |
| Evaporation Rate: | Not available | Decomposition Temperature: | Not available |
| Flammability: | Not available | Viscosity: | Not available |

Section 10: STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or polymerise under normal storage conditions.

Chemical Stability: When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: Decomposes upon heating and produces toxic fumes of carbon dioxide and other pyrolysis products typical of burning organic material.



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Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Acute Toxicity (Oral) Category 4**.

Abamectin: Oral (rat) LD₅₀: 10 mg/kg, Oral (mouse) LD₅₀: 13.6 mg/kg.

Inhalation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Abamectin: Inhalation (rat) LC₅₀: 1.1 mg/L/4h.

Dermal: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Abamectin: Dermal (rat) LD₅₀: > 330 mg/kg.

Injection: No data for the mixture is available.

Abamectin: No data.

Skin Corrosion / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin irritant.

Serious Eye Damage / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an eye irritant.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not thought to cause respiratory or skin sensitisation.

Germ Cell Mutagenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

Reproductive Toxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a reproductive toxicant. However, evidence exists to suggest that exposure to abamectin causes reduced fertility and may result in toxic effects to the development of the foetus at levels which do not cause significant toxic effects to the mother.

Specific Target Organ Toxicity (STOT): Single exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure.

Specific Target Organ Toxicity (STOT): Repeated exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Specific target organ toxicity - repeated exposure Category 2**.

Aspiration Hazard: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an aspiration hazard.

Narcotic Effects: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.



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Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Chronic Aquatic Hazard Category 1**. Abamectin is very toxic to bees and very toxic to aquatic life with long lasting effects.

Fish

Abamectin: LC₅₀ (96h): 0.002 – 0.006 mg/L.

Crustacea

Abamectin: EC₅₀ (48h): < 0.001 mg/L, NOEC (504h) 0.00005 mg/L.

Algae and other aquatic plants

Abamectin: EC₅₀ (72h): 4.4 mg/L, EC₅₀ (96h): 7.3 mg/L.

Bees

Abamectin: LD₅₀ (bee): 0.002 ug/bee.

| Ingredient | Persistence: Water/Soil | Persistence: Air | Bioaccumulation | Mobility |
|------------|----------------------------|---------------------|-----------------|----------|
| Abamectin | No data | No data | No data | No data |

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Wrap with paper and put in garbage.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not regulated as a dangerous good for road or rail transport within Australia as per Section 3.3.3 of the Australian Dangerous Goods Code. Regulated as follows when transported by sea or air freight and if transported internationally.

RID / ADR

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Contains ABAMECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.



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IATA

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains ABAMECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains ABAMECTIN)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Marine pollutant Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

General Information: IMDG Regulated Marine Pollutant. As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

Hazchem Code: None specified.

Section 15: REGULATORY INFORMATION

Poisons Schedule: S5
APVMA Registration No: 49917



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Section 16: OTHER INFORMATION

Legend:

| | |
|------------------------|--|
| ADR | International Carriage of Dangerous Goods by Road. |
| APVMA | Australian Pesticides and Veterinary Medicines Authority. |
| CAS No. | Chemical Abstracts Service Registry Number. |
| EC₅₀ | The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms. |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals. |
| Hazchem Code | Emergency action code of numbers and letters that provide information to emergency services especially firefighters. |
| IATA | International Air Transport Association. |
| ICAO | International Civil Aviation Organization. |
| KOC | Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution. |
| KOW | Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium. |
| LC₅₀ | The median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50% of animals. |
| LD₅₀ | The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals. |
| NOEC | No-observable-effect-concentration. |
| PPE | Personal Protective Equipment. |
| PVC | Polyvinyl chloride. |
| RID | International Carriage of Dangerous Goods by Rail. |
| SDS | Safety Data Sheet. |
| STOT | Specific Target Organ Toxicity. |
| SWA | Safe Work Australia. |

References:

ChemID Plus
Chemwatch
EPA New Zealand Chemical Classification and Information Database (CCID)
HSDB (Hazardous Substances Data Bank)
PubChem
Safe Work Australia Classification of Hazardous Chemicals Guidelines

Revision History:

| Date of Revision | Reason |
|------------------|--|
| 17 April 2018 | Addition of Product Identifier and update of Jurox email address in Section 1. |
| 01 March 2023 | Minor revision to update to Zoetis Customer Service and emergency phone numbers. |
| 23 March 2023 | Routine 5-yearly review. Re-classification of updated formulation according to GHS 7 and Safe Work Australia guidelines. Other minor updates throughout. |

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein do so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

END OF SDS