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**MATERIAL SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

<b>Product Name:</b>	<b>Erymicin 200 Injection</b>
<b>Product Code:</b>	502090 (100 mL)
<b>Recommended Use:</b>	An injectable antibiotic for the treatment of erythromycin-sensitive infections in cattle, sheep, lambs and pigs.
<b>Company Identification:</b>	Jurox Pty Limited
<b>Address:</b>	85 Gardiner Road Rutherford NSW 2320 Australia
<b>Customer Centre:</b>	1800 023 312
<b>National Poisons Information Centre:</b>	131 126 (Australia-wide)
<b>Emergency Telephone Number:</b>	1800 023 312 (Monday – Friday, 9.00 a.m. – 5.00 p.m.)

**Section 2: HAZARDS IDENTIFICATION**

<b>Hazard Classifications:</b>	<b>Considered a Hazardous Substance according to the criteria of NOHSC Australia.</b>  <b>Considered a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.</b>  <b>Regulations for Dangerous Goods packed in Limited Quantities apply to the 100 mL product.</b>
<b>Poisons Schedule:</b>	S4
<b>Risk phrases:</b>	Highly flammable Irritating to eyes May cause SENSITISATION by inhalation and skin contact Vapours may cause drowsiness and dizziness Inhalation and / or ingestion may produce health damage (limited evidence) Cumulative effects may result following exposure (limited evidence) May produce discomfort of the respiratory system and skin (limited evidence)
<b>Safety phrases:</b>	Keep away from sources of ignition. NO smoking. Do not breathe vapours Avoid contact with eyes Wear suitable protective clothing Use only in well-ventilated areas Keep container in a well ventilated place Do not empty into drains Use water to clean the floor and all objects contaminated by this material Keep container tightly closed Keep away from food, drink and animal feeding stuffs In case of contact with eyes, rinse with plenty of water and contact a Doctor or Poisons Information Centre (show the container or label) This material and its container must be disposed of as hazardous waste

**Section 3: COMPOSITION / INFORMATION on INGREDIENTS**

INGREDIENT	CAS No.	CONTENT
Erythromycin	114-04-8	20%
Ethanol	64-17-5	10 - < 30%
Other ingredients determined not to be hazardous		30 - 60%

**Section 4: FIRST AID MEASURES**

- First Aid Measures:** Consult the National Poisons Centre on 131126 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 product container or label at hand.
- Inhalation:** 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, induce vomiting ONLY IF CONSCIOUS. Rinse mouth. Keep subject warm and at rest. For advice, contact the National Poisons Centre on 131126. Seek medical assistance immediately.
- Skin:** If skin contact occurs, wash affected area thoroughly with plenty of soap and water for at least 15 minutes. If skin irritation or rash occurs, get medical advice/attention. Remove and wash / dispose of contaminated clothing promptly.
- Eye:** If eye contact occurs, rinse cautiously with water for at least 15 minutes. Continue rinsing. If eye irritation persists, get medical advice/attention.
- Injected:** Treat as for needle-stick injury. Wash area well and disinfect. If other symptoms become evident, seek medical advice.
- Advice to Doctor:** Poisoning by erythromycin may cause temporary deafness. Poisoning by ethanol should be treated symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

- Flash Point:** < 15°C.
- Hazardous Combustion Products:** Difficult to ignite but if involved in a fire, may emit noxious fumes. Considered to be a significant fire risk.
- Extinguishing Media:** Use foam, dry chemical powder, BCF (where regulations permit), carbon dioxide or water spray or fog (large fires only).
- Protective Equipment:** Gas-tight chemical resistant suit and breathing apparatus for large fires.
- HAZCHEM Code:** 3YE

**Section 6: ACCIDENTAL RELEASE MEASURES**

- Spills and Disposal:** Remove all ignition sources. Avoid breathing vapours and contact with skin and eyes. Exclude non-essential people from the area and move upwind. Use dry clean up procedures and avoid generating dust. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a container for flammable wastes. For major spills, clear area of personnel and move upwind, alert Fire Brigade and tell them location and nature of hazard.
- Protective Clothing:** Wear breathing apparatus plus protective gloves.
- Environmental Precautions:** Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

**Section 7: HANDLING AND STORAGE**

- Handling:** This is a Schedule 4 (Prescription Animal Remedy) product, available only to or through a veterinarian. Avoid accidental injection, and contact with skin and eyes. Use personal protective equipment as required.
- Storage:** Keep out of reach of children Store below 30°C. Protect from light. Store in flame-proof area.
- Other Information:** Always read the label before use. See label for further information on handling and storage.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Exposure Limits:** No exposure limits have been assigned for this product. Do not handle until all safety precautions have been read and understood. Due to the small volumes involved, and the methods of administration, exposure under normal conditions of use would likely be limited to splashing on to skin or in to eyes, or accidental self injection. The Australian Exposure Standard for ethanol is:- TWA – 1000 ppm, 1880 mg / m<sup>3</sup>.
- Protective Equipment:** Not applicable for normal use of the 100 mL product. Chemical protective gloves (e.g. PVC), safety glasses or chemical goggles, safety footwear or safety gumboots (e.g. rubber) and overalls and/or PVC apron are recommended for the bulk product and a PVC protective suit may be required if exposure is severe. Access to an eye wash unit and emergency shower is advisable.
- Engineering Controls:** Not applicable for normal use of the 100 mL product. For the bulk product, local exhaust ventilation or a processed enclosure ventilation system may be required.
- Hygiene Precautions:** As for good veterinary practice.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** Clear, light yellow liquid
- Specific Gravity:** Approx. 0.98
- Solubility in Water:** Not miscible with water
- Flash Point:** < 15°C
- pH:** Not applicable

**Section 10: STABILITY AND REACTIVITY**

- Stability:** When stored appropriately this product should show no significant degradation for at least 18 months from the date of manufacture.
- Hazardous Polymerisation:** Not known to occur.
- Materials to Avoid:** Avoid strong bases, oxidising agents, acids, acid chlorides, acid anhydrides and chlorformates.

**Section 11: TOXICOLOGICAL INFORMATION**

- Inhalation:** May cause SENSITISATION by inhalation. Inhalation of vapours may cause respiratory irritation in some individuals with coughing and nausea. High concentrations may cause central nervous depression with headache and dizziness, slowing of reflexes, fatigue, incoordination and vertigo.  
**Ethanol** Inhalation LC<sub>50</sub> = 20,000 ppm / 10 hr (rat), 64,000 ppm / 4 hr (rat)
- Ingestion:** Exposure to erythromycin may cause allergic skin reactions. Higher concentrations may induce reversible deafness and liver damage, with gastrointestinal discomfort, upper abdominal pain, fever, liver enlargement and raised liver enzymes.  
**Erythromycin** Oral LD<sub>50</sub> = 3018 mg/kg (hamster), 4600 mg/kg (rat).  
**Ethanol** Oral LD<sub>50</sub> = 7060 mg/kg (rat).

<b>Skin:</b>	May cause SENSITISATION by skin contact. May produce moderate inflammation of the skin following direct contact or after a delay of some time in sensitive individuals. May cause systemic effects if absorbed through broken skin.
<b>Eye:</b>	Moderate eye irritant.
<b>Injection:</b>	Effects will vary in severity according to the quantity involved, from localised site reaction (pain, redness and swelling) to a more acute systemic reaction.
<b>Chronic Effects:</b>	Hepatic disturbances may result from extensive oral exposure. Substance accumulation may occur. Repeated inhalation or skin contact may cause sensitisation reactions (e.g. acute bronchospasm, hives, deep dermal wheals, rhinitis, blurred vision, asthma-like responses). Anaphylactic shock and skin rash (non-thrombocytopenic purpura) may occur.
<b>Reproductive Toxicity:</b>	Ethanol may affect fertility and cause foetotoxicity and foetolethality.
<b>Mutagenicity:</b>	Not known to be mutagenic.
<b>Carcinogenicity:</b>	Ethanol has been classified as a Type 1 carcinogen (Carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

### Section 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<b>Erythromycin:</b> EC <sub>50</sub> (48 hr): 22.7 mg/L ( <i>Penaeus vannamei</i> Whitehead shrimp)
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### Section 13: DISPOSAL INFORMATION

<b>Product Disposal:</b>	Dispose of product only by using according to the APVMA-approved label or by approved waste collection.
<b>Container Disposal:</b>	Wrap with paper and place in garbage.

### Section 14: TRANSPORT INFORMATION

<b>Dangerous Goods</b>	Classed as a Dangerous Good for transport purposes by road, sea or air. Regulations for Dangerous Goods packed in Limited Quantities apply to the 100 mL product.
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<b>Classification:</b>	UN Number: 1993
	UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (contains ethanol)
	Class: 3
	Subsidiary Risk: None allocated
	Packaging Group: II
	Hazchem code: •3YE (ADG7)

### Section 15: REGULATORY INFORMATION

APVMA Registration No: 52668

### Section 16: OTHER INFORMATION

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 does 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.