

**SAFETY DATA SHEET**

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

**Product Name:** Oztik Pour-On Tick Inhibitor for Cattle

**Product Code:** 503325 (2.5L); 502995 (5L); 503170 (15 L)

**Recommended Use:** A pour-on solution for the control of ticks on cattle.

**Company Identification:** Jurox Pty Limited

**Address:** 85 Gardiner Street  
Rutherford NSW 2320  
Australia

**Email:** customerservice@jurox.com.au

**Customer Centre:** 1800 023 312

**National Poisons Information Centre:** 131126 (Australia-wide, 24 hours)

**Emergency Telephone Number:** 1800 023 312 (9a.m. – 5p.m. Monday - Friday)

**Section 2: HAZARDS IDENTIFICATION**

**GHS Hazard Classifications:**

| GHS Category   | Hazard code | Hazard Statement                                      |
|--|-------------|---|
| Chronic Aquatic Hazard Category 1  | H410        | Very toxic to aquatic life with long lasting effects. |
| Acute Toxicity (Oral) Category 4   | H302        | Harmful if swallowed.                                 |
| Flammable Liquid Category 4  | H227        | Combustible Liquid.                                   |
| Reproductive Toxicity Category 1B  | H360        | May damage fertility or the unborn child.             |
| Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1                              | H314        | Causes skin irritation and serious eye damage.        |
| Skin Sensitizer Category 1   | H317        | May cause an allergic skin reaction.                  |
| Specific target organ toxicity following single exposure Category 3 respiratory tract irritation | H335        | May cause respiratory irritation                      |

**GHS Pictograms:**



Health hazard



Corrosive



Exclamation mark



Aquatic pollutant

**Signal Word\*:** Danger

**Precautionary Statements\*:**

**Prevention**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P234 Keep only in original container.
- P260 Do not breathe vapours.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye protection.
- P281 Use personal protective equipment as required.

**Response**

|                    |  |
|--------------------|--|
| P301+P330+P331     | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.                                       |
| P304 + P340        | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice.   |
| P310               | Immediately call a POISON CENTER or doctor.  |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice.   |
| P363               | Wash contaminated clothing before reuse.   |
| P390               | Absorb spillage to prevent material damage.  |

**Storage**

|             |   |
|-------------|---|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.        |
| P405        | Store locked up.  |
| P406        | Store in corrosive resistant container or with a resistant inner liner. |

**Disposal**

|      |  |
|------|--|
| P501 | Dispose of contents / container in accordance with label directions. |
|------|--|

\* N.B.: These 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.

### Section 3: COMPOSITION / INFORMATION on INGREDIENTS

| INGREDIENT   | CAS No.    | CONTENT |
|--|------------|---------|
| 1-methyl-2-pyrrolidone<br>(Synonym: N-methyl-2-pyrrolidone)                                    | 872-50-4   | 41.5%   |
| Benzyl Benzoate  | 120-51-4   | 40%     |
| 1-dodecyl-2-pyrrolidone<br>(Synonyms: 1- lauryl-2-pyrrolidone,<br>N-(N-dodecyl)-2-pyrrolidone) | 2687-96-9  | 10.0%   |
| 1-octyl-2-pyrrolidone<br>(Synonym: N-(N-octyl)-2-pyrrolidone)                                  | 2687-94-7  | 10.0%   |
| Fluazuron  | 86811-58-7 | 2.5%    |
| Other non-hazardous ingredients  |            | 36%     |

### Section 4: FIRST AID MEASURES

|                            |  |
|----------------------------|--|
| <b>First Aid Measures:</b> | 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.             |
| <b>Inhalation:</b>         | May irritate the nose and throat if inhaled. 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.                                      |
| <b>Ingestion:</b>          | May produce chemical burns within the oral cavity and gastrointestinal tract if swallowed. Seek medical assistance immediately. If swallowed, DO NOT induce vomiting. Rinse mouth. Keep subject warm and at rest. For advice, contact the National Poisons Centre on 131126 or a doctor. Urgent hospitalization may be needed. |
| <b>Skin:</b>               | If skin contact occurs, immediately flush body and clothes with large amounts of water, using safety shower if available. Wash skin and hair thoroughly with plenty of soap and water for at least 20 minutes or until advised to stop by the Poisons Information Centre. Transport to hospital or a doctor.                   |

|                          |  |
|--------------------------|--|
| <b>Eye:</b>              | May produce chemical burns to the eye following direct contact. Vapours may be extremely irritating. If eye contact occurs, rinse cautiously with water for at least 20 minutes or advised to stop by the Poisons Information Centre or a doctor. Transport to hospital or a doctor. |
| <b>Advice to Doctor:</b> | Treat as for corrosives.   |

### Section 5: FIRE FIGHTING MEASURES

|                                       |  |
|---------------------------------------|--|
| <b>Flash Point:</b>                   | 92°C (N-methyl-2-pyrrolidone).   |
| <b>Hazardous Combustion Products:</b> | Combustible. Slight fire hazard when exposed to heat or flame. If involved in a fire, may emit noxious and corrosive fumes.                        |
| <b>Extinguishing Media:</b>           | Use dry chemical powder, BCF (where regulations permit) and carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire. |
| <b>Protective Equipment:</b>          | Gas-tight chemical resistant suit, protective gloves and breathing apparatus.  |
| <b>HAZCHEM Code:</b>                  | None specified.  |

### Section 6: ACCIDENTAL RELEASE MEASURES

|                                   |  |
|-----------------------------------|--|
| <b>Spills and Disposal:</b>       | Slippery when spilt. Wear appropriate protective clothing. Exclude non-essential people from the area and move upwind. Contain spill and sweep up / absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Neutralise residue. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely in an approved landfill. For large spills, alert Fire Brigade and tell them location and nature of hazard. |
| <b>Protective Clothing:</b>       | For appropriate personal protective equipment see section 8.   |
| <b>Environmental Precautions:</b> | Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise local authority.  |

### Section 7: HANDLING AND STORAGE

|                           |   |
|---------------------------|---|
| <b>Handling:</b>          | Keep out of reach of children. Read safety directions before opening or using. Avoid contact with skin, eyes and inhalation of vapours. Avoid contact with clothing. Use personal protective equipment as required – see label. Do not eat, drink or smoke while handling product. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. |
| <b>Storage:</b>           | Keep out of reach of children Store below 30°C, tightly closed in a safe place, out of direct sunlight.   |
| <b>Other Information:</b> | Always read the label before use. See label for further information on handling and storage.  |

### 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.**

|                              |   |
|------------------------------|---|
| <b>Exposure Limits:</b>      | No exposure limits have been assigned for this product. The Australian Exposure Standards for the ingredient 1-methyl-2-pyrrolidone are TWA: 25 ppm, 103 mg/m <sup>3</sup> ; STEL: 75 ppm, 309 mg/m <sup>3</sup> . Avoid breathing vapours. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing. |
| <b>Protective Equipment:</b> | When using the product, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and a face shield.   |
| <b>Engineering Controls:</b> | Handle in a well ventilated area.   |
| <b>Hygiene Precautions:</b>  | Do not drink, eat or smoke when handling this product. Remove protective clothing and wash hands and face thoroughly before meals and after handling. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.  |

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                   |                             |                                   |                 |
|-----------------------------------|-----------------------------|-----------------------------------|-----------------|
| <b>Appearance:</b>                | Clear, light yellow liquid. | <b>Vapour Pressure:</b>           | 100 kPa.        |
| <b>Odour:</b>                     | Not available.              | <b>Vapour density:</b>            | Not available.  |
| <b>Odour threshold:</b>           | Not available.              | <b>Relative density:</b>          | Not applicable. |
| <b>pH:</b>                        | Not available.              | <b>Specific Gravity:</b>          | 1.04 – 1.05.    |
| <b>Melting Point:</b>             | Not available.              | <b>Solubility in Water:</b>       | Soluble.        |
| <b>Boiling Point:</b>             | Not available.              | <b>Partition coefficient:</b>     | Not applicable. |
| <b>Flash Point:</b>               | 92°C.                       | <b>Auto-ignition temperature:</b> | Not available.  |
| <b>Evaporation Rate:</b>          | Not available.              | <b>Decomposition temperature:</b> | Not available.  |
| <b>Flammability:</b>              | Combustible.                | <b>Viscosity:</b>                 | Not available.  |
| <b>Upper flammability limits:</b> | Not available.              |                                   |                 |
| <b>Lower flammability limits:</b> | Not available.              |                                   |                 |

### Section 10: STABILITY AND REACTIVITY

|                                  |  |
|----------------------------------|--|
| <b>Stability:</b>                | When stored appropriately this product should show no significant degradation within the expiry period shown on the label. |
| <b>Hazardous Polymerisation:</b> | Not known to occur.  |
| <b>Materials to Avoid:</b>       | Avoid oxidising agents.  |

### Section 11: TOXICOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>Inhalation:</b>                         | Inhalation of vapours generated by the material during the course of normal handling, may be harmful. Inhaling large quantities may cause spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary oedema.  |
| <b>Ingestion:</b>                          | Based on available data for the ingredients, the mixture is classified to be harmful if swallowed.<br><br><b>Fluazuron:</b> LD50 (oral, rat): >2000mg/kg bodyweight<br><b>N-Methyl-2-Pyrrolidone:</b> LD50 (oral, rat): 4200mg/kg bodyweight<br><b>1-Lauryl-2-Pyrrolidone:</b> LD50 (oral, rat): >5000mg/kg bodyweight.                            |
| <b>Skin corrosion/irritation:</b>          | Causes skin irritation. Systemic effects may result following absorption.<br><br><b>Fluazuron:</b> LD50 (dermal, rat): >2000mg/kg bodyweight<br><b>N-Methyl-2-Pyrrolidone:</b> LD50 (dermal, rabbit): 8000mg/kg bodyweight<br><b>1-Lauryl-2-Pyrrolidone:</b> LD50 (dermal, rabbit): >2000mg/kg bodyweight; skin irritation (rabbit): 500 mg severe |
| <b>Serious eye damage/ Eye irritation:</b> | Causes serious eye damage (1-dodecyl-2-pyrrolidone and 1-octyl-2-pyrrolidone).   |
| <b>Respiratory or Skin Sensitisation:</b>  | Based on available data for the ingredients, the mixture is classified as Skin Sensitizer Category 1 - May cause an allergic skin reaction. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  |
| <b>Mutagenicity:</b>                       | Not considered to be mutagenic, based on the results of animal studies on the individual ingredients.  |
| <b>Carcinogenicity:</b>                    | Not considered to be carcinogenic, based on the results of animal studies on the individual ingredients.   |

**Reproductive Toxicity:** N-methyl-2-pyrrolidone has caused decrease foetal weights and other developmental effects in animal studies.

**STOT – Single exposure:** May cause respiratory irritation. (N-methyl-2-pyrrolidone). Chronic solvent inhalation may result in nervous system impairment and liver and blood changes.

**STOT – Repeated exposure:** Due to partial or complete lack of data the classification is not possible.

### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Fluazuron:**

Daphnia EC<sub>50</sub> (48 h) 0.0006 mg/L

Rainbow trout LC<sub>50</sub> > 15 mg/L

Carp LC<sub>50</sub> > 9.1 g/L

| Ingredient             | Persistence:<br>Water/Soil | Persistence:<br>Air | Bioaccumulation | Mobility          |
|------------------------|----------------------------|---------------------|-----------------|-------------------|
| N-methyl-2-pyrrolidone | LOW                        | No data available   | LOW             | HIGH              |
| 1-lauryl-2-pyrrolidone | LOW                        | No data available   | LOW             | LOW               |
| 1-octyl-2-pyrrolidone  | LOW                        | No data available   | LOW             | MED               |
| Fluazuron              | HIGH                       | No data available   | LOW             | LOW               |
| Benzyl Benzoate        | No data available          | No data available   | LOW             | No data available |

### Section 13: DISPOSAL INFORMATION

**Product Disposal:** Dispose of product only by using according to APVMA-approved label or at an approved landfill. DO NOT burn product.

**Container Disposal:** Triple rinse containers with detergent and hot water before disposal. Dispose of rinsate in a disposal pit away from desirable plants and their roots and watercourses. Destroy empty containers by breaking, crushing or puncturing them. Dispose of containers at a local authority landfill that does not burn its refuse. If there is no local authority landfill readily available in the area, bury the containers at a depth of 500 mm or more at an approved disposal site. DO NOT burn empty containers.

### Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** Not classed as a Dangerous Good for transport purposes by road, sea or air.

### Section 15: REGULATORY INFORMATION

**Poisons Schedule:** S6

**APVMA Registration Nos:** 58799

**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 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.

**Legend**

|                        |   |
|------------------------|---|
| <b>ADG</b>             | Australian Code for the Transport of Dangerous Goods by Road & Rail, 7 <sup>th</sup> Edition.   |
| <b>AICS</b>            | Australian Inventory of Chemical Substances.  |
| <b>APVMA</b>           | Australian Pesticides and Veterinary Medicines Authority.   |
| <b>CAS No.</b>         | Chemical Abstracts Service Registry Number.   |
| <b>GHS</b>             | Globally Harmonized System of Classification and Labelling of Chemicals.  |
| <b>Hazchem Code</b>    | Emergency action code of numbers and letters that provide information to emergency services especially firefighters.                    |
| <b>LC50</b>            | Lethal Concentration 50 - the concentration of a chemical which kills 50% of a sample population.                                       |
| <b>LD<sub>50</sub></b> | The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals. |
| <b>PPE</b>             | Personal Protective Equipment.  |
| <b>PVC</b>             | Polyvinyl Chloride.   |
| <b>SDS</b>             | Safety Data Sheet.  |
| <b>STEL</b>            | Short Term Exposure Level   |
| <b>STOT</b>            | Specific Target Organ Toxicity.   |
| <b>SUSMP</b>           | Standard for the Uniform Scheduling of Medicines and Poisons.   |
| <b>TWA</b>             | Time-Weighted Average   |

**References**

ChemIDPlus, entry for 1-Methyl-2-pyrrolidinone (RN: 872-50-4), 1-Dodecyl-2-pyrrolidinone (RN: 2687-96-9), 2-Pyrrolidinone, 1-octyl- (RN: 2687-94-7) and Fluazuron (RN: 86811-58-7).

HSDB <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>, entry for 1-Methyl-2-Pyrrolidinone (CASRN: 872-50-4)

New Zealand Environmental Protection Authority, HSNO Chemical Classification and Information Database (CCID), entry for 2-Pyrrolidinone, 1-methyl- (CAS Number: 872-50-4), 1-Dodecyl-2-pyrrolidone (CAS Number: 2687-96-9) and 2-Pyrrolidinone, 1-octyl- (CAS Number: 2687-94-7).

VSDB (Veterinary Substances Database, <http://sitem.herts.ac.uk/aeru/vsdb/>), entry for Fluazuron.

**This version issued:** 29 November 2017 and is valid for 5 years from this date.

**Supersedes:** This SDS supersedes the version issued on 29 November 2012.

**Revision History:**

| Date of Revision | Reason   |
|------------------|--|
| 29 November 2017 | Updates to section 1, 2, 3, 5 & 11; Updates to Legend, and addition of Revision History in Section 16. |
|                  |  |

**END OF SDS**