SAFETY DATA SHEET

1. Identification

Product identifier
Elanco AH0230 Micotil 300 Injection (Tilmicosin)

Other means of identification

Synonyms
Tylosin, 4A-O-de(2,6-dideoxy-3-C-methyl-a-L-ribo-hexopyranosyl
)-20-deoxo-20-{(3R,5S)-3,5-dimethyl-1-piperidiny1}-p
hosphate (1:1) (salt) * Tilmicosin Formulation * Tilmicosin Phosphate Formulation

Item Code
AH0230

Recommended use of the chemical and restrictions on use

Recommended use
Veterinary Pharmaceutical

Restrictions on use
Not available.

Details of manufacturer or importer

Company name
Elanco Australasia Pty Ltd.

ACN: 076 745 198

Address
112 Wharf Road
West Ryde, NSW 2114
Australia

Telephone
1800 226 324 (toll free)

e-mail
lilly_mads@lilly.com

Emergency phone number
Elanco Australasia 1800 226 324 (toll free)

24 hr emergency contact number
CHEMWATCH 1800 039 008 (spills and accidents)

24 hr emergency contact number (Local)
CHEMWATCH +61 2 9186 1132 (spills and accidents)

2. Hazard(s) Identification

Classification of the hazardous chemical

Physical hazards
Not classified.

Health hazards
Sensitization, respiratory Category 1
Sensitization, skin Category 1
Specific target organ toxicity following repeated exposure Category 2

Environmental hazards
Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 1

Label elements, including precautionary statements

Hazard symbol(s)

Health hazard
Environment

Signal word
Danger

Hazard Statement(s)
May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (Heart) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary Statement(s)

**Prevention**
Avoid breathing mist or vapour. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**Storage**
Not available.

**Disposal**
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification
Injection of Micotil 300 in humans has been associated with fatalities.

Supplemental information
None.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identity of chemical ingredients</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration of ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilmicosin Phosphate</td>
<td>137330-13-3</td>
<td>30</td>
</tr>
</tbody>
</table>

Composition comments
Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures

**Description of necessary first aid measures**

**Inhalation**
Move to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison control centre immediately.

**Skin contact**
Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash before reuse.

**Eye contact**
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control centre immediately.

**Ingestion**
Call a physician or poison control centre immediately. Give several glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Personal protection for first-aid responders**
Not available.

**Symptoms caused by exposure**

- **Human Warnings:** Not for human use. Injection of Micotil 300 in humans has been associated with fatalities. Keep out of the reach of children. Do not use in automatically powered syringes. Exercise extreme caution to avoid accidental self-injection. In case of human injection, consult a physician immediately.

  (Micotil 300) No allergic reactions in a manufacturing setting have been reported. Compounds of similar structure have been reported to cause transient alterations in heart rate. Clinical signs from accidental human injection include off taste in the mouth, nausea, headache, dizziness, rapid heart rate, chest pain, anxiety or lightheadedness. Local reactions such as injection site pain, bleeding, swelling or inflammation have been reported. Injection of this drug in humans has been associated with fatalities.

  (Tilmicosin Phosphate) Allergic reactions in a manufacturing setting have been reported. Allergy symptoms may include skin rash, watery eyes, shortness of breath, nasal congestion, coughing, and wheezing.

- **Medical attention and special treatment**

In case of human injection, consult a physician immediately and apply ice or cold pack to the injection site while avoiding direct contact with the skin.

The cardiovascular system is the target of toxicity and should be monitored closely. Cardiovascular toxicity may be due to calcium channel blockade. In dogs, administration of intravenous calcium offset Micotil-induced tachycardia and negative inotropy (decreased contractility). Dobutamine partially offset the negative inotropic effects induced by Micotil in dogs. Beta-adrenergic antagonists, such as propranolol, exacerbated the negative inotropy of Micotil in dogs. Epinephrine potentiated lethality of Micotil in pigs. This antibiotic persists in tissues for several days.
5. Fire-fighting measures

Extinguishing media
- Suitable extinguishing media: Alcohol resistant foam. Dry chemical. Carbon dioxide (CO2).
- Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters: Wear self-contained breathing apparatus and protective clothing.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Hazchem Code: Z3

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
- For non-emergency personnel: Avoid inhalation of vapours or mists. See Section 8 for personal protective equipment. Avoid contact with skin, eyes and clothing.
- For emergency responders: Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions: Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes.

Methods and materials for containment and cleaning up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and storage


Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Keep at temperature not exceeding 30°C. Avoid moisture. Protect against direct sunlight. Avoid contact with oxidising agents.

8. Exposure controls and personal protection

Control parameters
- Occupational exposure limits: No exposure limits noted for ingredient(s).
- Biological limit values: No biological exposure limits noted for the ingredient(s).
- Exposure guidelines: Lilly Exposure Guideline (LEG): 12 hour TWA <100 ug/m3 (Tilmicosin)

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)
- Eye/face protection: Wear chemical goggles. Use face shield in case of splash risk. (AS/NZS 1337)
- Skin protection
  - Hand protection: Wear appropriate chemical resistant gloves. (AS 2161)
  - Other: Chemical-resistant gloves and impermeable body covering to minimize skin contact.
- Respiratory protection: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Select appropriate respirator for physical characteristics of material. Select respirator with appropriate protection factor. (AS/NZS 1715)
- Thermal hazards: Not available.
In a manufacturing setting, wear chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

Under normal use and handling conditions, wear goggles to protect eyes and wear impermeable gloves and protective equipment to avoid direct contact with skin. Wash thoroughly with soap and water after handling.

### 9. Physical and chemical properties

**Appearance**
- Solution.

**Physical state**
- Liquid.

**Form**
- Liquid.

**Colour**
- Yellow to Amber.

**Odour**
- faint sweet odor

**Odour threshold**
- No data available.

**pH**
- 5.5 - 6.5 (aqueous 50/50)

**Melting point/freezing point**
- No data available.

**Initial boiling point and boiling range**
- No data available.

**Flash point**
- No data available.

**Evaporation rate**
- No data available.

**Flammability (solid, gas)**
- Not applicable.

**Upper/lower flammability or explosive limits**
- Flammability limit - lower (%)
  - No data available.
- Flammability limit - upper (%)
  - No data available.
- Explosive limit - lower (%)
  - 20 %
- Explosive limit - lower temperature
  - 100 °C (212 °F)
- Explosive limit – upper (%)
  - No data available.

**Vapour pressure**
- No data available.

**Vapour density**
- No data available.

**Relative density**
- No data available.

**Solubility(ies)**
- Solubility (water)
  - Soluble.

**Partition coefficient (n-octanol/water)**
- No data available.

**Auto-ignition temperature**
- 418 °C (784.4 °F)

**Decomposition temperature**
- No data available.

**Viscosity**
- No data available.

**Other physical and chemical parameters**
- Density
  - No data available.
- Explosive properties
  - No data available.
- Oxidising properties
  - No data available.
- Percent volatile
  - No data available.
- VOC
  - No data available.

### 10. Stability and reactivity

**Reactivity**
- The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
- Material is stable under normal conditions.

**Possibility of hazardous reactions**
- Hazardous polymerisation does not occur.
Conditions to avoid
Contact with incompatible materials.

Incompatible materials
Strong oxidising agents.

Hazardous decomposition products
Fire or excessive heat may produce hazardous decomposition products.

11. Toxicological information

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elanco AH0230 Micotil 300 Injection (Tilmicosin)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD</td>
<td>Rabbit</td>
<td>0.5 ml/kg No mortality. No toxicity.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC</td>
<td>Rat</td>
<td>2750 mg/m^3, 4 hr No mortality.</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monkey</td>
<td>Intramuscular: a single dose of 10 mg/kg caused no signs of toxicity. A single dose of 20 mg/kg caused vomiting, and 30 mg/kg caused the death of the only monkey tested.</td>
<td></td>
</tr>
<tr>
<td>Swine</td>
<td>Intramuscular: 10 mg/kg caused increased respiration, emesis, and a convulsion; 20 mg/kg resulted in mortality in 3 of 4 pigs, and 30 mg/kg caused the death of all 4 pigs tested.</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>318 mg/kg Subcutaneous: reduced activity, leg weakness, hunched posture.</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tilmicosin Phosphate (CAS 137330-13-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>3800 mg/m^3, 4 h</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>855 mg/kg (fasted)</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 185 mg/kg Subcutaneous: coma, lethargy, incoordination, reduced activity.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Rabbit: Slight irritation.
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Rabbit Slightly irritating to the eyes of rabbits.
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Respiratory sensitisation
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Allergic reactions in a manufacturing setting have been reported. (Tilmicosin Phosphate)

Skin sensitisation
Did not cause sensitization on laboratory animals. Allergic reactions in a manufacturing setting have been reported. (Tilmicosin Phosphate)

Germ cell mutagenicity
In vitro and in vivo tests did not show mutagenic effects. (Tilmicosin)
Based on available data, the classification criteria are not met.

Carcinogenicity
No carcinogenicity data available for this product. Not listed by IARC, NTP, ACGIH or OSHA. Due to lack of data the classification is not possible.

Reproductive toxicity
Slight increase in offspring mortality at maternally toxic doses. (Tilmicosin Phosphate)
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure
Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure

The heart is the target of toxicity in laboratory and domestic animals given Micotil®300 by oral or parenteral routes. The primary cardiac effects are increased heart rate (tachycardia) and decreased contractility (negative inotropy). Cardiovascular toxicity may be due to calcium channel blockade.

Aspiration hazard

No aspiration toxicity classification

Other information

Increased adrenal and kidney weights, increased cell size in adrenal cortex, mucosal edema of the gallbladder, and subretinal fluid accumulation. Decreased food consumption and body weight gains, slightly decreased urine pH, occult blood in urine, increased serum alanine transaminase.

(Tilmicosin Phosphate)

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilmicosin (CAS 108050-54-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>&gt; 918 mg/kg, 28 day (Earthworm (Eisenia fetida))</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>&gt; 4710 ppm, 5 day Anas platyrhynchos (Mallard), Dietary Quail</td>
<td></td>
</tr>
<tr>
<td>MIC</td>
<td>&gt; 4820 ppm, 5 day Colinus virginianus (Bobwhite), Dietary</td>
<td></td>
</tr>
<tr>
<td>Micro-organisms</td>
<td>&gt; 1000 mg/l Mold (Aspergillus flavus)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 1000 mg/l Fungus (Chaetomium globosum)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>250 mg/l Soil bacteria (Comamonas acidovorans)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 mg/l N-fixing bacteria (Azotobacter chroococcum)</td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50</td>
<td>0.354 mg/l (Selenastrum capricornutum, average specific growth rate)</td>
</tr>
<tr>
<td>MIC</td>
<td>Algae</td>
<td>0.5 mg/l (Blue-green algae)</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>57.3 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus) 716 mg/l, 96 hr Oncorhynchus mykiss 851 mg/l, 96 hours</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td></td>
<td>Photolysis half-life (hours): 0.84, 0.82, 0.82 (pH 5, 7, 9) Photolysis rate constant (1/hours): 0.83, 0.84, 0.84 (pH 5, 7, 9) Hydrolysis half-life (days): &gt;= 365, &gt;= 365, 156 (pH 5, 7, 9) Hydrolysis rate constant (1/hours): 0.0001853 (pH 9) Aerobic biodegradation: none measured after 64 days (sandy loam, loam, clay loam)Anaerobic biodegradation: none measured after 73 days Decline in loam soil: 45.9% after 52 weeks Decline in clay loam soil: none after 52 weeks (Tilmicosin)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td></td>
<td>No data available for this product.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>n-octanol / water (log Kow)</td>
<td>Tilmicosin</td>
</tr>
<tr>
<td></td>
<td>&lt; 1 (pH 5)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 1 (pH 7)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.6 (pH 9)</td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td></td>
<td>No data available for this product.</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td></td>
<td>No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.</td>
</tr>
</tbody>
</table>
Ecotoxicological Properties

Drinking Water

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilmicosin</td>
<td>280 µg/l, (Lilly Aquatic Exposure Guideline)</td>
</tr>
</tbody>
</table>

Chronic Exposure of Aquatic Organisms

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilmicosin</td>
<td>54 µg/l, (Lilly Aquatic Exposure Guideline)</td>
</tr>
</tbody>
</table>

Acute Exposure of Aquatic Organisms

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tilmicosin</td>
<td>354 µg/l, (Lilly Aquatic Exposure Guideline)</td>
</tr>
</tbody>
</table>

13. Disposal considerations

Disposal methods/information

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

General information

Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

ADG

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Environmentally hazardous substance, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td>3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subsidiary risk -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packing group III</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Environmental hazards Yes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hazchem Code D3Z</td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
<td></td>
</tr>
<tr>
<td>Not classified as dangerous goods when transported by road or rail in packaging or receptacles not exceeding 500 kg (L) according to ADG 7 SP AU01.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RID

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Environmentally hazardous substances, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td>3082</td>
<td>Environmentally hazardous substances, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subsidiary risk -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packing group III</td>
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</tr>
<tr>
<td></td>
<td>Label(s) 9</td>
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</tr>
<tr>
<td></td>
<td>Environmental hazards Yes</td>
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</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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</tr>
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</table>

IATA

<table>
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<tr>
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</tr>
<tr>
<td>3082</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subsidiary risk -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packing group III</td>
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<tr>
<td></td>
<td>Environmental hazards Yes</td>
<td></td>
</tr>
<tr>
<td>ERG Code</td>
<td>9L</td>
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</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
<td></td>
</tr>
<tr>
<td>Other information</td>
<td>Allowed with restrictions.</td>
<td></td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Environmentally hazardous substances, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
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<tr>
<td>3082</td>
<td>Environmentally hazardous substances, liquid, n.o.s. (TILMICOSIN PHOSPHATE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subsidiary risk -</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packing group III</td>
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<tr>
<td></td>
<td>Environmental hazards Yes</td>
<td></td>
</tr>
<tr>
<td>Cargo aircraft only</td>
<td>Allowed with restrictions.</td>
<td></td>
</tr>
</tbody>
</table>

Material name: Elanco AH0230 Micotil 300 Injection (Tilmicosin)

SDS AUSTRALIA

4899
Transport hazard class(es)

- Class 9
- Subsidiary risk -
- Packing group III
- Environmental hazards Marine pollutant Yes
- EmS F-A, S-F

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ADG; IATA; IMDG; RID

Marine pollutant

15. Regulatory information

Safety, health and environmental regulations

National regulations

- APVMA approval number 45653
- Poison Schedule 4
- Australia Medicines & Poisons Schedule 4
- TILMICOSIN (CAS 108050-54-0)
- High Volume Industrial Chemicals (HVIC)
  Not listed.
- Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)
  Not listed.
- National Pollutant Inventory (NPI) substance reporting list
  Not listed.
- Prohibited Carcinogenic Substances
  Not regulated.
- Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)
  Not listed.
- Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
  Not listed.
- Restricted Carcinogenic Substances
  Not regulated.

International regulations

- Stockholm Convention
  Not applicable.
Rotterdam Convention  
Not applicable.

Kyoto protocol  
Not applicable.

Montreal Protocol  
Not applicable.

Basel Convention  
Not applicable.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*

A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date  
25-September-2015

Revision date  
22-September-2016

Key abbreviations or acronyms used

LEG: Lilly Exposure Guideline  
TWA: Time Weighted Average

Disclaimer

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

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Revision information

Physical & Chemical Properties: Multiple Properties