SAFETY DATA SHEET

1. Identification

Product identifier: Tulathromycin-Ketoprofen Solution for Injection

Other means of identification

Synonyms: DRAXXIN KP * Draxxin KP Injectable Solution for Cattle * Draxxin KP (tulathromycin and ketoprofen injection) * DRAXXIN KP plus Ketoprofen Injectable Solution for Cattle

Recommended use of the chemical and restrictions on use

Recommended use: Veterinary antibiotic agent; Non-steroidal, anti-inflammatory drug (NSAID)

Restrictions on use: Not for human use

Details of manufacturer or importer

Company Name (AU): Zoetis Australia Pty Ltd

ABN 94 156 476 425

Level 6, 5 Rider Boulevard

Rhodes NSW 2138 AUSTRALIA

Tel: 1800 814 883

Fax: (02) 8876 0444

Email: productsupport.au@zoetis.com

Emergency Phone: 1800 814 883 (all hours)

Police and Fire Brigade: Dial 000

If ineffective: Dial Poisons Information Centre (13 1126 from anywhere in Australia)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards: Not classified.

Health hazards:

- Acute toxicity, oral: Category 4
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2A
- Sensitization, skin: Category 1
- Specific target organ toxicity following repeated exposure: Category 2 (digestive organs, kidney)

Environmental hazards: Not classified.

Label elements, including precautionary statements

Hazard symbol(s)

- Exclamation mark
- Health hazard

Signal word: Warning

Hazard statement(s):

- Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs (digestive organs, kidney) through prolonged or repeated exposure.

Precautionary statement(s)

Prevention:

- Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.
Response
Get medical advice/attention if you feel unwell. IF SWALLOWED: Call a POISON CENTRE or
doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and
water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously
with water for several minutes. Remove contact lenses, if present and easy to do. Continue
rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and
wash before reuse.

Storage
Store away from incompatible materials.

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

Other hazards which do not
result in classification
None known.

Supplemental information
None.

3. Composition/information on ingredients

Mixture

<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>Propylene glycol</td>
<td>57-55-6</td>
<td>30-60</td>
</tr>
<tr>
<td>Ketoprofen</td>
<td>22071-15-4</td>
<td>12</td>
</tr>
<tr>
<td>Tulathromycin</td>
<td>217500-96-4</td>
<td>10</td>
</tr>
<tr>
<td>2-Pyrrolidone</td>
<td>616-45-5</td>
<td>5-10</td>
</tr>
<tr>
<td>Citric acid</td>
<td>77-92-9</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Composition comments  
% = w/v

4. First-aid measures

Description of necessary first aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Remove contaminated clothing. Wash off immediately with soap and plenty of water. If skin
irritation or rash occurs: Get medical advice/attention. In case of eczema or other skin disorders:
Seek medical attention and take along these instructions. Wash contaminated clothing before
reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if
present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion
Rinse mouth. Get medical advice/attention if you feel unwell. If ingestion of a large amount does
occur, call a poison control centre immediately. Do not induce vomiting without advice from poison
control center. Never give anything by mouth to a victim who is unconscious or is having
convulsions.

Personal protection for first-aid responders
IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of
the SDS. Ensure that medical personnel are aware of the material(s) involved, and take
precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash
contaminated clothing before reuse.

Symptoms caused by exposure
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred
vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness
may cause chronic effects.

Medical attention and special treatment
Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media
Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Suitable extinguishing media

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed. Combustible.

Special protective equipment and precautions for fire fighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Material name: Tulathromycin-Ketoprofen Solution for Injection

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Move containers from fire area if you can do so without risk.

Hazchem code: None.

General fire hazards: Combustible.

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: Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions

Methods and materials for containment and cleaning up

Avoid discharge into drains, water courses or onto the ground.

Ensure adequate ventilation. Remove sources of ignition.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid accidental injection. Wear personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a well-ventilated place. @ 15-30°C (59-86°F). Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters: Follow standard monitoring procedures.

Occupational exposure limits

<table>
<thead>
<tr>
<th>Zoetis Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ketoprofen (CAS 22071-15-4)</td>
<td>TWA</td>
<td>75 µg/m³</td>
</tr>
<tr>
<td>Tulathromycin (CAS 217500-96-4)</td>
<td>TWA</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>474 mg/m³</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
<td>Total vapour and particulates.</td>
</tr>
</tbody>
</table>

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>474 mg/m³</td>
<td>Total vapour and particulates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
</tbody>
</table>
UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>150 ppm</td>
<td>Total vapour and particulates.</td>
</tr>
</tbody>
</table>

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid (CAS 77-92-9)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

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. General ventilation normally adequate. Eye wash fountain and emergency showers are recommended.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection
Do not get in eyes. Professional use: If contact is likely, safety glasses with side shields are recommended. Additionally, face shield recommended if splashing is possible. Industrial use: Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection
Wear appropriate chemical resistant gloves.

Hand protection
Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Other
No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

Respiratory protection
Not applicable.

Thermal hazards
Not applicable.

Hygiene measures
Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance
Sterile solution.

Physical state
Liquid.

Form
Liquid.

Colour
Colorless - Yellow.

Odour
Not available.

Odour threshold
Not available.

pH
Not available.

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not available.

Flash point
Not available.

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not available.

Flammability limit - upper (%)
Not available.

Explosive limit - lower (%)
Not available.

Explosive limit – upper (%)
Not available.
10. Stability and reactivity

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

Stability
Material is stable under normal conditions.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Contact with incompatible materials. Keep away from heat, sparks and open flame.

Incompatible materials
Strong oxidising agents.

Hazardous decomposition products
Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on possible routes of exposure

Inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact
Causes skin irritation. May cause an allergic skin reaction.

Ketoprofen
Severity: Irritant

Propylene glycol
Species: Rabbit
Severity: Mild

Citric acid
Species: Rabbit
Severity: Non-irritating

Tulathromycin
Species: Rabbit
Severity: Non-irritating

Eye contact
Causes serious eye irritation.

Ketoprofen
Severity: Irritant

Citric acid
Species: Rabbit
Severity: Irritant

Propylene glycol
Species: Rabbit
Severity: Mild

Tulathromycin
Species: Rabbit
Severity: positive

Ingestion
Harmful if swallowed.

Symptoms related to exposure
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema.

Acute toxicity
Harmful if swallowed.
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidone (CAS 616-45-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>6500 mg/kg</td>
</tr>
<tr>
<td><strong>Citric acid (CAS 77-92-9)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>6730 mg/kg</td>
</tr>
<tr>
<td><strong>Ketoprofen (CAS 22071-15-4)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>62.4 mg/kg</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOAEL</td>
<td>Dog</td>
<td>3 mg/kg/day, 3 months Gastrointestinal system</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>6 mg/kg/day, 3 months Gastrointestinal System</td>
</tr>
<tr>
<td>Kidney Blood</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Propylene glycol (CAS 57-55-6)</strong></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>LD50</td>
<td>Rabbit</td>
<td>20800 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>24900 mg/kg</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>22000 mg/kg</td>
</tr>
<tr>
<td><strong>Tulathromycin (CAS 217500-96-4)</strong></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>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg (Minimum Lethal Dose)</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAEL</td>
<td>Dog</td>
<td>5 mg/kg/day, 1 years (Target organs: Liver, Male reproductive system)</td>
</tr>
<tr>
<td>Subacute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAEL</td>
<td>Dog</td>
<td>15 mg/kg/day, 1 months (Target organs: Liver)</td>
</tr>
<tr>
<td>Rat</td>
<td></td>
<td>50 mg/kg/day, 1 months (Target organs: Liver, Blood)</td>
</tr>
<tr>
<td><strong>Subchronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAEL</td>
<td>Rat</td>
<td>15 mg/kg/day, 3 months (Target organs: Liver)</td>
</tr>
<tr>
<td>NOEL</td>
<td>Dog</td>
<td>5 mg/kg/day, 3 months (Target organs: Liver)</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ketoprofen</td>
<td></td>
<td>Severity: Irritant</td>
</tr>
</tbody>
</table>

Material name: Tulathromycin-Ketoprofen Solution for Injection

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**Eye contact**
Citric acid  
Species: Rabbit  
Severity: Irritant

Propylene glycol  
Species: Rabbit  
Severity: Mild

Tulathromycin  
Species: Rabbit  
Severity: positive

**Respiratory or skin sensitisation**
**Respiratory sensitisation**  
Not a respiratory sensitizer.

**Skin sensitisation**  
May cause an allergic skin reaction.

**Skin sensitisation**
Tulathromycin  
GPMT  
Species: Guinea Pig  
Severity: Severe

**Germ cell mutagenicity**  
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**
Ketoprofen  
Bacterial Mutagenicity (Ames)  
Result: Negative with activation, without activation  
Species: Salmonella

Tulathromycin  
Bacterial Mutagenicity (Ames)  
Result: negative  
Species: Salmonella

  In Vitro Chromosome Aberration  
  Result: negative  
  Species: Chinese Hamster Ovary (CHO) cells

  In Vitro Chromosome Aberration  
  Result: negative  
  Species: Human lymphocytes

  In Vitro Mammalian Cell Mutagenicity  
  Result: negative  
  Species: Chinese Hamster Ovary (CHO) cells

  In Vivo Micronucleus Chromosome Aberration  
  Result: negative  
  Species: Rat

Ketoprofen  
Sister Chromatid Exchange  
Result: negative  
Species: Human lymphocytes

**Carcinogenicity**  
Due to partial or complete lack of data the classification is not possible.

**Reproductive toxicity**  
Based on available data, the classification criteria are not met.

**Developmental effects**
Tulathromycin  
200 mg/kg/day Embryo / Fetal Development, No effects at maximum dose  
Result: NOAEL  
Species: Rat  
Organ: Oral

  50 mg/kg/day Embryo / Fetal Development, No effects at maximum dose  
  Result: NOAEL  
  Species: Rabbit  
  Organ: Oral

Material name: Tulathromycin-Ketoprofen Solution for Injection
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Reproductivity
Tulathromycin 50 mg/kg/day 2 Generation Reproductive Toxicity, Paternal

toxicity: No effects on reproductive parameters or neonatal
development at any dose level.
Result: NOAEL
Species: Rat
Organ: Oral

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

Specific target organ toxicity - repeated exposure
May cause damage to organs (digestive organs, kidney) through prolonged or repeated
exposure.

Aspiration hazard
Not an aspiration hazard.

Other information
Caution - Pharmaceutical agent.

12. Ecological information

Ecotoxicity
Based on available data, the classification criteria are not met for hazardous to the aquatic
environment. The product is not classified as environmentally hazardous. However, this does not
exclude the possibility that large or frequent spills can have a harmful or damaging effect on the
environment. Avoid release to the environment.

Components | Species | Test Results
--- | --- | ---
2-Pyrrolidone (CAS 616-45-5)
Aquatic
Crustacea | EC50 | Water flea (Daphnia pulex) | 13.21 mg/l, 48 hours
LC50 | Daphnia magna (Water Flea) | 13.21 mg/l, 48 Hours

Propylene glycol (CAS 57-55-6)
Aquatic
Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/l, 48 hours
Fish | LC50 | Fathead minnow (Pimephales promelas) | 710 mg/l, 96 hours

Tulathromycin (CAS 217500-96-4)
Aquatic
Crustacea | EC50 | Selenastrum capricornutum (Green Alga) | 70 µg/l, 72 Hours (ErC50)
IC50 | Polytox | 19 mg/l

Fish
LC50 | Mysis shrimp (Mysid Shrimp) | 20 mg/l, 48 Hours

Cyprinodon variegatus (Sheepshead Minnow)

Oncorhynchus mykiss (rainbow trout) | > 982 mg/l, 96 Hours

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
No data available for this product. Not expected to bioaccumulate.

Partition coefficient
n-octanol / water (log Kow)
Tulathromycin | -1.41, (Measured Log P @ pH 7.0)

Mobility in soil
No data available for this product.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation
potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal considerations

**Disposal methods**
Avoid release to the environment. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Residual waste**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

**ADG**
Not regulated as dangerous goods.

**RID**
Not regulated as dangerous goods.

**IATA**
Not regulated as dangerous goods.

**IMDG**
Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not established.

15. Regulatory information

**Safety, health and environmental regulations**

**National regulations**
This Safety Data Sheet was prepared in accordance with the Australia Model Code of Practice for the preparation of safety data sheets for hazardous chemicals.

- **Australia Medicines & Poisons Appendix A**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix B**
  Propylene glycol (CAS 57-55-6)

- **Australia Medicines & Poisons Appendix D**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix E**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix F**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix G**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix H**
  Ketoprofen (CAS 22071-15-4)

- **Australia Medicines & Poisons Appendix I**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix J**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Appendix K**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Schedule 10**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Schedule 2**
  Poisons schedule number not allocated.

- **Australia Medicines & Poisons Schedule 3**
  Ketoprofen (CAS 22071-15-4)
Australia Medicines & Poisons Schedule 4
Ketoprofen (CAS 22071-15-4)
Tulathromycin (CAS 217500-96-4)

Australia Medicines & Poisons Schedule 5
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8
Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9
Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)
- Citric acid (CAS 77-92-9) 1000 - 9999 TONNES See the regulation for additional information.
- Propylene glycol (CAS 57-55-6) 10000 - 99999 TONNES See the regulation for additional information.

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>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no) *</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>No</td>
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<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

07-January-2020

#### Disclaimer

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.

#### Revision information

Product and Company Identification: Synonyms
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties