SAFETY DATA SHEET

1. Identification

Product identifier LINCO-SPECTIN® Premix Antibiotic for Swine

Other means of identification

Synonyms Linco-Spectin® Premix 22 + 22

Recommended use of the chemical and restrictions on use

Recommended use Veterinary antibiotic agent

Restrictions on use Not for human use

Details of manufacturer or importer

Manufacturer

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 australia.animalhealth@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 Sensitization, skin Category 1
Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)

Exclamation mark

Signal word Warning

Hazard Statement(s) May cause an allergic skin reaction.

Precautionary Statement(s)

Prevention Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing 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 May form combustible dust concentrations in air.

Supplemental information May cause eye irritation. May cause skin irritation. The most common adverse effects reported with clinical use were diarrhea, nausea, rash, and vomiting. Effects on blood and blood-forming organs have also occurred.

Material name: LINCO-SPECTIN® Premix Antibiotic for Swine
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>Lincomycin Hydrochloride Monohydrate</td>
<td>7179-49-9</td>
<td>2.2</td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>64058-48-6</td>
<td>2.2</td>
</tr>
</tbody>
</table>

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 immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
- **Eye contact**: Rinse mouth. Get medical attention if irritation develops and persists.
- **Ingestion**: Rinse with water. Get medical attention if irritation develops and persists.

**Personal protection for first-aid responders**

Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

**Symptoms caused by exposure**

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

**Extinguishing media**

- **Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).** Apply extinguishing media carefully to avoid creating airborne dust.

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

**Specific hazards arising from the chemical**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special protective equipment and precautions for fire fighters**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**For emergency responders**

Wear appropriate protective equipment and clothing during clean-up. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate the contaminated area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not breathe dust. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up

Ensure adequate ventilation. Avoid the generation of dusts during clean-up. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Collect spill with an inert, non-combustible absorbent material and transfer to labeled container for disposal. Clean contaminated surface thoroughly. Prevent release to the environment.

Small Spills: Wipe up with a damp cloth and place in container for disposal. 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

Provide adequate ventilation. Minimise dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. wear personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a cool, well-ventilated place. < 30°C/86°F. Keep away from heat, sparks and open flame. Protect from sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

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>Lincomycin Hydrochloride Monohydrate (CAS 7179-49-9)</td>
<td>TWA</td>
<td>100 µg/m³</td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate (CAS 64058-48-6)</td>
<td>TWA</td>
<td>2000 µg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

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

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Provide adequate general and local exhaust ventilation. 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. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

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

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

When using, do not eat, drink or smoke. 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.

Material name: LINCO-SPECTIN® Premix Antibiotic for Swine

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9. Physical and chemical properties

Appearance
- Physical state: Solid.
- Form: Powder.
- Colour: Not available.

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 available.

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.

Vapour pressure: Not available.
Vapour density: Not available.
Relative density: Not available.
Solubility(ies)
- Solubility (water): Not available.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

Other physical and chemical parameters
- Explosive properties: Not explosive.
- Oxidising properties: Not oxidising.

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
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Contact with incompatible materials. Keep away from heat, sparks and open flame. Avoid dispersion as a dust cloud. Dust may form explosive mixture with air. Fine particles (such as dust and mists) may fuel fires/explosions.

Incompatible materials
Peroxides. Phenols. As a precautionary measure, keep away from strong oxidizers.

Hazardous decomposition products
Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride.

11. Toxicological information

Information on possible routes of exposure
- Inhalation: Dust may irritate respiratory system. Prolonged inhalation may be harmful.
- Skin contact: Dust or powder may irritate the skin. May cause an allergic skin reaction.
**Skin contact**  
Spectinomycin Sulfate Tetrahydrate  
Species: Rabbit  
Severity: No effect

**Eye contact**  
Dust may irritate the eyes.  
Lincomycin Hydrochloride Monohydrate  
Severity: Irritant  
Spectinomycin Sulfate Tetrahydrate  
Species: Rabbit  
Severity: Minimal

**Ingestion**  
May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms related to exposure**  
Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash. The most common adverse effects reported with clinical use were diarrhea, nausea, rash, and vomiting.

**Acute toxicity**  
May cause an allergic skin reaction.

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincomycin Hydrochloride Monohydrate (CAS 7179-49-9)</td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Intravenous  
LD50  
Mouse | 214 mg/kg |
| Oral  
LD50  
Rat | > 4000 mg/kg |
| Other  
LD50  
Rat | 342 mg/kg (Para-periosteal) |
| **Subcutaneous**  
LD50  
Rat | 9778 mg/kg |
| **Chronic** | |
| Oral  
NOAEL  
Dog | 100 mg/kg/day, 6 months (Target organ(s): Immune system) |
| **Subacute** | |
| Oral  
NOAEL  
Rat | 300 mg/kg/day, 30 days (No effects at maximum dose) |
| Subcutaneous  
NOAEL  
Rat | 60 mg/kg/day, 30 days (Target organ(s): None identified) |
| **Subchronic** | |
| Oral  
LOAEL  
Dog | 400 mg/kg/day, 3 months (Target organ(s): None identified) |
| NOAEL  
Rat | 300 mg/kg/day, 3 months (Target organ(s): None identified) |

Spectinomycin Sulfate Tetrahydrate (CAS 64058-48-6)

<table>
<thead>
<tr>
<th>Acute</th>
<th></th>
</tr>
</thead>
</table>
| Intravenous  
LD50  
Mouse | 1022 mg/kg |
| Oral  
LD50  
Rat | > 5000 mg/kg |
| Other  
LD50  
Mouse | 3577 mg/kg [Sub-tenon injection (eye)] |
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subchronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOAEL</td>
<td>Rat</td>
<td>3000 mg/kg/day, 13 weeks (Target organ(s): None identified)</td>
</tr>
<tr>
<td>NOAEL</td>
<td>Dog</td>
<td>50 mg/kg/day, 90 days (Target organ(s): None identified)</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>400 mg/kg/day, 13 weeks (Target organ(s): None identified)</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td><strong>Corrosivity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Severity: No effect</td>
<td></td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td></td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Severity: Irritant</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Species: Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Severity: Minimal</td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitisation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory sensitisation</strong></td>
<td></td>
<td>Not a respiratory sensitizer.</td>
</tr>
<tr>
<td><strong>Skin sensitisation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Severity: Sensitiser</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Severity: Sensitiser</td>
<td></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
<td>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Bacterial Mutagenicity (Ames)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Salmonella</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Bacterial Mutagenicity (Ames)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Salmonella</td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Direct DNA Interaction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Human lymphocytes</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>In Vitro Chromosome Aberration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Chinese Hamster Ovary (CHO) cells</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In Vitro Unscheduled DNA Synthesis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Rat Hepatocyte</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In Vivo Micronucleus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Mouse Bone Marrow</td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>In Vivo Micronucleus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Result: negative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Species: Rat</td>
<td></td>
</tr>
</tbody>
</table>

Material name: LINCO-SPECTIN® Premix Antibiotic for Swine
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### Mutagenicity
Lincomycin Hydrochloride Monohydrate  
Mammalian Cell Mutagenicity  
Result: negative  
Species: Mouse Lymphoma

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

### Reproductive toxicity
This product is not expected to cause reproductive or developmental effects. This compound can cross the placenta in pregnant women. may be secreted in human breast milk.

#### Developmental effects

<table>
<thead>
<tr>
<th>Compound</th>
<th>Route</th>
<th>Dose</th>
<th>Effect</th>
<th>LOAEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Oral</td>
<td>100 mg/kg Prenatal &amp; Postnatal Development, Not Teratogenic</td>
<td>NOEL</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Oral</td>
<td>1000 mg/kg/day Embryo / Fetal Development, (Maternal Toxicity)</td>
<td>NOAEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 mg/kg/day Embryo / Fetal Development, (Fetotoxicity)</td>
<td>NOAEL</td>
<td></td>
</tr>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Subcutaneous</td>
<td>30 mg/kg/day Peri-/Postnatal Development, No effects at maximum dose</td>
<td>NOAEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>300 mg/kg/day Embryo/Fetal Development, Not Teratogenic</td>
<td>NOAEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 mg/kg/day Fertility and Embryonic Development, No effects at maximum dose</td>
<td>NOAEL</td>
<td></td>
</tr>
</tbody>
</table>

#### Reproductivity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Route</th>
<th>Dose</th>
<th>Effect</th>
<th>LOAEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincomycin Hydrochloride Monohydrate</td>
<td>Oral</td>
<td>100 mg/kg 2 Generation Reproductive Toxicity, Fetotoxicity</td>
<td>LOAEL</td>
<td></td>
</tr>
<tr>
<td>Spectinomycin Sulfate Tetrahydrate</td>
<td>Oral</td>
<td>2000 mg/kg/day Reproductive &amp; Fertility, (Maternal Toxicity, Paternal toxicity, Fetotoxicity)</td>
<td>NOAEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 mg/kg/day Reproductive &amp; Fertility, (Maternal Toxicity, Paternal toxicity, Fetotoxicity)</td>
<td>NOEL</td>
<td></td>
</tr>
</tbody>
</table>

#### Specific target organ toxicity - single exposure
Not classified.

#### Specific target organ toxicity - repeated exposure
Not classified.

#### Aspiration hazard
Not an aspiration hazard.

Material name: LINCO-SPECTIN® Premix Antibiotic for Swine  
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Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

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 Test results Species

Lincomycin Hydrochloride Monohydrate (CAS 7179-49-9)

EC50 0.03 mg/l, 72 Hours Anabaena flos-aquae (Cyanobacteria)

Daphnia magna (Water Flea) > 900 mg/l, 48 Hours

LC50 > 900 mg/l, 96 Hours Lepomis macrochirus (Bluegill Sunfish)

Salmo gairdneri (Trout) > 980 mg/l, 96 Hours

Spectinomycin Sulfate Tetrahydrate (CAS 64058-48-6)

EC50 > 1000 mg/l, 48 Hours Daphnia magna (Water Flea)

1.18 mg/l, 72 Hours Selenastrum capricornutum (Green Alga)

LC50 > 118 mg/l, 96 Hours Oncorhynchus mykiss (Rainbow Trout)

No data is available on the degradability of this product.

Persistence and degradability

Bioaccumulative potential

Partition coefficient

n-octanol / water (log Kow)

Spectinomycin Sulfate Tetrahydrate -2.44, (Log D, measured, pH 7.4)

No data available for this product.

Mobility in soil

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 discharge into drains, water courses or onto the ground. 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. Contract with a disposal operator licensed by the Law on Disposal and Cleaning.

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. Empty containers should be taken to an approved waste handling site for recycling or disposal

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 applicable.
15. Regulatory information

Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

APVMA No. 38701

Poison Schedule (Product) - Schedule 4

This SDS replaces version: Issued 30 April 2015

**Australia Medicines & Poisons Appendix A**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix B**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix C**

Poisons schedule number not allocated.

**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**

Poisons schedule number not allocated.

**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 2**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 4**

Poisons schedule number not allocated.

**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)**

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
12-November-2016

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: Alternate Trade Names
Composition / Information on Ingredients: Ingredients
GHS: Classification