SAFETY DATA SHEET

1. Identification

Product identifier: Special Formula 17900 Forte-V Lactating Intramammary Antibiotic Suspension (APVMA No. 38696)

Other means of identification: None.

Recommended use of the chemical and restrictions on use

Recommended use: Veterinary product used as antibiotic agent

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: 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:
- Skin corrosion/irritation: Category 2
- Sensitization, respiratory: Category 1
- Sensitization, skin: Category 1
- Reproductive toxicity (the unborn child): Category 1A

Environmental hazards: Not classified.

Label elements, including precautionary statements

Hazard symbol(s)

Signal word: Danger

Hazard Statement(s): Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May damage the unborn child.

Precautionary Statement(s)

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Use personal protective equipment as required. Wear protective gloves. In case of inadequate ventilation wear respiratory protection.

Response: IF exposed or concerned: Get medical advice/attention. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage: Store locked up.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Identity of chemical ingredients</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration of ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peanut Oil</td>
<td>8002-03-7</td>
<td>&gt;60</td>
<td></td>
</tr>
<tr>
<td>Dihydrostreptomycin sulfate</td>
<td>1425-61-2</td>
<td>≤ 2</td>
<td></td>
</tr>
<tr>
<td>Neomycin sulfate</td>
<td>1405-10-3</td>
<td>≤ 2</td>
<td></td>
</tr>
<tr>
<td>Novobiocin Sodium</td>
<td>1476-53-5</td>
<td>≤ 2</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

**Description of necessary first aid measures**

**Inhalation**  
Move to fresh air. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. Call a physician if symptoms develop or persist.

**Skin contact**  
Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. 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 if irritation develops and persists.

**Ingestion**  
IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Get medical attention if symptoms occur. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Personal protection for first-aid responders**  
For personal protection, see section 8 of the SDS. IF exposed or concerned: Get medical advice/attention. 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**  
Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**Medical attention and special treatment**  
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

**Extinguishing media**  
Suitable extinguishing media  
Water fog. Foam. Dry chemical powder. 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**  
During fire, gases hazardous to health may be formed.

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

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

**Hazchem Code**  
None.

**General fire hazards**  
No unusual fire or explosion hazards noted.
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

Ensure adequate ventilation. Keep unnecessary personnel away. Do not breathe mist or vapour. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Use personal protection recommended in Section 8 of the SDS. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate the contaminated area. Do not breathe mist or vapour. 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

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. 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. Use only with adequate ventilation. Wear personal protective equipment. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid accidental injection. Avoid prolonged exposure. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. Observe good industrial hygiene practices. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

Store locked up. Keep away from heat, sparks and open flame. Store away from direct sunlight. Keep tightly closed in a dry, cool and well-ventilated place. @ 15-30°C (59-86°F). Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Zoetis Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neomycin sulfate (CAS 1405-10-3)</td>
<td>TWA</td>
<td>100 µg/m³</td>
</tr>
<tr>
<td>Novobiocin Sodium (CAS 1476-53-5)</td>
<td>TWA</td>
<td>250 µg/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>Peanut Oil (CAS 8002-03-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Inhalable mist.</td>
</tr>
</tbody>
</table>

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peanut Oil (CAS 8002-03-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Inspirable dust.</td>
</tr>
</tbody>
</table>

Biological limit values

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

Exposure guidelines

OEL Additional Information: Sensitizer

Control banding approach

Dihydrostreptomycin sulfate: Zoetis OEB 2 (control exposure to the range of 100µg/m3 to < 1000µg/m3)
Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. 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 facilities and emergency shower must be available when handling this product.

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. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. 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. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range. Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.

Thermal hazards

Not applicable.

Hygiene measures

Observe any medical surveillance requirements. 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

Physical state

Liquid.

Form

Oily liquid

Colour

Not available.

Odour

Mild.

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.

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  Heat, flames and sparks. Sunlight. Contact with incompatible materials. Avoid high temperatures.
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  May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.
Skin contact  Causes skin irritation. May cause an allergic skin reaction.
Neomycin sulfate  Species: Rabbit
Severity: Moderate
Peanut Oil  Species: Rabbit
Severity: Moderate

Eye contact  Direct contact with eyes may cause temporary irritation.
Neomycin sulfate  Species: Rabbit
Severity: Minimal
Novobiocin Sodium  Species: Rabbit
Severity: Moderate

Ingestion  Expected to be a low ingestion hazard.

Symptoms related to exposure
Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Acute toxicity  May cause an allergic skin reaction.

Components  Test results
Dihydrostreptomycin sulfate (CAS 1425-61-2)

<table>
<thead>
<tr>
<th>Component Type</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Intraperitoneal Mouse</td>
<td>LD50</td>
<td>1380 mg/kg</td>
</tr>
<tr>
<td>Intravenous Rat</td>
<td>LD50</td>
<td>137 mg/kg</td>
</tr>
<tr>
<td>Oral Mouse</td>
<td>LD50</td>
<td>&gt; 600 mg/kg</td>
</tr>
<tr>
<td>Subcutaneous Rat</td>
<td>LD50</td>
<td>1100 mg/kg</td>
</tr>
<tr>
<td>Subchronic Intramuscular Monkey</td>
<td>LOEL</td>
<td>9375 mg/kg/day, 75 days (Target organ(s): None identified)</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test results</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Neomycin sulfate (CAS 1405-10-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intraperitoneal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>116 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>2880 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>2750 mg/kg</td>
</tr>
<tr>
<td><strong>Subcutaneous</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>275 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>633 mg/kg</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Cat</td>
<td>12 mg/kg/day, 12 months (Target organ(s): Blood forming organs)</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>25 mg/kg/day, 2 years (Not carcinogenic)</td>
</tr>
<tr>
<td><strong>Subacute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOAEL</td>
<td>Dog</td>
<td>100 mg/kg/day, 6 weeks (No effects at maximum dose)</td>
</tr>
<tr>
<td><strong>Subchronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Guinea Pig</td>
<td>10 mg/kg/day, 3 months (No effects at maximum dose)</td>
</tr>
<tr>
<td><strong>LD50</strong></td>
<td>Dog</td>
<td>20 mg/kg/day, 3 months (Target organ(s): Kidney)</td>
</tr>
<tr>
<td></td>
<td>Guinea Pig</td>
<td>10 mg/kg/day, 3 months (Target organ(s): Kidney)</td>
</tr>
<tr>
<td>Novobiocin Sodium (CAS 1476-53-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intraperitoneal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>225 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>370 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>962 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>3200 mg/kg</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>360 mg/kg (Para-periosteal)</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td><strong>Corrosivity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neomycin sulfate</td>
<td>Species: Rabbit</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Severity:</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>Neomycin sulfate</td>
<td>Species: Rabbit</td>
<td>Minimal</td>
</tr>
<tr>
<td></td>
<td>Severity:</td>
<td></td>
</tr>
<tr>
<td>Novobiocin Sodium</td>
<td>Species: Rabbit</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Severity:</td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitisation</strong></td>
<td></td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
</tbody>
</table>
**Skin sensitisation**

May cause an allergic skin reaction.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Severity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neomycin sulfate</td>
<td>positive</td>
</tr>
<tr>
<td>Dihydrostreptomycin sulfate</td>
<td>Sensitiser</td>
</tr>
<tr>
<td>Novobiocin Sodium</td>
<td>Sensitiser</td>
</tr>
</tbody>
</table>

**Germ cell mutagenicity**

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mutagenicity Type</th>
<th>Result</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neomycin sulfate</td>
<td>Bacterial Mutagenicity (Ames)</td>
<td>negative</td>
<td>Salmonella, E. coli</td>
</tr>
<tr>
<td>Peanut Oil</td>
<td>Bacterial Mutagenicity (Ames)</td>
<td>negative</td>
<td>Salmonella</td>
</tr>
<tr>
<td>Neomycin sulfate</td>
<td>In Vitro Chromosome Aberration</td>
<td>positive</td>
<td>Human lymphocytes</td>
</tr>
<tr>
<td></td>
<td>In Vivo Cytogenetics</td>
<td>negative</td>
<td>Mouse</td>
</tr>
<tr>
<td></td>
<td>Mammalian Cell Mutagenicity</td>
<td>negative</td>
<td>Chinese Hamster Ovary (CHO) cells</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

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

**Reproductive toxicity**

May damage the unborn child.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Developmental effects</th>
<th>Result</th>
<th>Species</th>
<th>Organ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novobiocin Sodium</td>
<td>40 mg/kg/day Embryo / Fetal Development, Not teratogenic</td>
<td>NOAEL</td>
<td>Rat</td>
<td>Oral</td>
</tr>
<tr>
<td>Neomycin sulfate</td>
<td>6 mg/kg/day Prenatal &amp; Postnatal Development, Developmental toxicity</td>
<td>LOAEL</td>
<td>Rat</td>
<td>Subcutaneous</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Reproductivity</th>
<th>Result</th>
<th>Species</th>
<th>Organ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neomycin sulfate</td>
<td>25 mg/kg/day 2 Gen Reproductive Toxicity, Fetotoxicity</td>
<td>NOAEL</td>
<td>Rat</td>
<td>Oral</td>
</tr>
<tr>
<td>Neomycin sulfate</td>
<td>25 mg/kg/day Reproductive &amp; Fertility, No effects at maximum dose</td>
<td>NOAEL</td>
<td>Rat</td>
<td>Oral</td>
</tr>
<tr>
<td>Novobiocin Sodium</td>
<td>40 mg/kg/day Reproductive &amp; Fertility, No effects at maximum dose</td>
<td>NOAEL</td>
<td>Rat</td>
<td>Oral</td>
</tr>
</tbody>
</table>
Reproductivity
Neomycin sulfate 4000 mg/l Reproductive & Fertility, No effects at maximum dose
Result: NOAEL
Species: Mouse
Organ: Oral

Dihydrostreptomycin sulfate 7500 mg/kg/day Reproductive & Fertility, Developmental toxicity
Result: LOEL
Species: Rat
Organ: Intramuscular

Specific target organ toxicity -
single exposure
Not classified.

Specific target organ toxicity -
repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Prolonged inhalation may be harmful.

Other information
May cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting, transient diarrhea, nausea, and abdominal pain. Individuals who are allergic to penicillin antibiotics might exhibit allergic reactions, possibly severe. Common adverse reactions associated with the clinical use of streptomycin include vestibular ototoxicity (nausea, vomiting, and vertigo); paraesthesia of face; rash; fever; urticaria; angioneurotic edema; and eosinophilia. Streptomycin can cause fetal harm (ototoxicity) when administered to a pregnant woman. Clinical use may cause Stevens Johnson Syndrome (epidermal necrosis and exfoliative dermatitis).

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 | Species | Test results
--- | --- | ---
Neomycin sulfate (CAS 1405-10-3)
EC50 | Activated sludge | 399 mg/l
Daphnia magna (Water Flea) | 68 mg/l, 48 Hours
NOEC | Salmo gairdneri (Trout) | > 1000 mg/l, 96 Hours

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

Bioaccumulative potential
Partition coefficient 
\textit{n}-octanol / water (log Kow)
Neomycin sulfate 1.2, Log D, predicted, pH 7.4

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. 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. 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 established.

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: 38696

Poison Schedule (Product) - Schedule 4

This SDS replaces version: Issued 24 August 2015

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>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>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</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>Yes</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                  | 01-December-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: Synonyms
                            | Composition / Information on Ingredients: Ingredients