SAFETY DATA SHEET

1. Identification
Product identifier Cerenia Injection
Other means of identification
Synonyms CERENIA * Cerenia® (maropitant citrate) Injectable Solution * Cerenia® Injectable Solution * Maropitant Citrate Solution for Injection * Cerenia® Injection
Recommended use of the chemical and restrictions on use
Recommended use Veterinary product used as Anti-emetic
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 Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3
Hazardous to the aquatic environment, long-term hazard Category 3

Label elements, including precautionary statements
Hazard symbol(s)
Exclamation mark

Signal word Warning

Hazard statement(s) May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

Precautionary statement(s)
Prevention Avoid breathing mist or vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

Response 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. 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
None known.

Supplemental information
Based on findings in animal studies, this compound may cause rare but potentially serious cardiac effects in human clinical use. Sulfobutylether b-cyclodextrin sodium (SBECD) has been associated with toxic effects in the kidney.

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>Mixture</td>
<td>Sulfobutylether b-cyclodextrin sodium (SBECD)</td>
<td>7585-39-9</td>
<td>&lt;10</td>
</tr>
<tr>
<td></td>
<td>Maropitant Citrate Salt, Monohydrate</td>
<td>359875-09-5</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Description of necessary first aid measures**

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, trained personnel should give oxygen.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>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.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>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.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Rinse mouth. Get medical attention if symptoms occur. 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.</td>
</tr>
</tbody>
</table>

**Personal protection for first-aid responders**
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. Wash contaminated clothing before reuse.

**Symptoms caused by exposure**
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

**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**
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
Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders
Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS. Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapour. Ventilate the contaminated area. 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
Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Prevent product from entering drains.

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
Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Avoid accidental injection. Avoid prolonged exposure. Wear appropriate 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
Keep away from heat, sparks and open flame. Store in original tightly closed container. 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>Maropitant Citrate Salt, Monohydrate (CAS 359875-09-5)</td>
<td>TWA</td>
<td>20 µg/m³</td>
</tr>
<tr>
<td>Sulfobutylether b-cyclodextrin sodium (SBECD) (CAS 7585-39-9)</td>
<td>TWA</td>
<td>3000 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>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol (CAS 108-39-4)</td>
<td>TWA</td>
<td>22 mg/m³ 5 ppm</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>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol (CAS 108-39-4)</td>
<td>TWA</td>
<td>22 mg/m³ 5 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol (CAS 108-39-4)</td>
<td>TWA</td>
<td>20 mg/m³ Inhalable fraction and vapor.</td>
<td></td>
</tr>
</tbody>
</table>

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

Exposure guidelines

Australia OELs: Skin designation
m-Cresol (CAS 108-39-4) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
m-Cresol (CAS 108-39-4) Can be absorbed through the skin.
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.

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

Eye/face protection

If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection

Wear suitable gloves. Wear impervious gloves if skin contact is possible.

Other

Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

Respiratory protection

No personal respiratory protective equipment normally required. 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.

Thermal hazards

Not applicable.

Hygiene measures

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

aqueous solution

Physical state

Liquid.

Form

Liquid.

Colour

Clear, colorless to pale 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.

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. Heat, flames and sparks. High temperatures.
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 Prolonged inhalation may be harmful.
Skin contact May cause an allergic skin reaction.
Maropitant Citrate Salt, Monohydrate Species: Rabbit Severity: Non-irritating
Sulfobutylether b-cyclodextrin sodium (SBEC) Species: Rabbit Severity: Non-irritating
m-Cresol Species: Rabbit Severity: Severe

Eye contact Causes serious eye irritation.
Sulfobutylether b-cyclodextrin sodium (SBEC) Species: Rabbit Severity: Non-irritating
Maropitant Citrate Salt, Monohydrate Species: Rabbit Severity: Severe
m-Cresol Species: Rabbit Severity: Severe

Ingestion Expected to be a low ingestion hazard.

Symptoms related to exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components Species Test results

Maropitant Citrate Salt, Monohydrate (CAS 359875-09-5)

Acute Dermal
LDmin. Rat > 2000 mg/kg

Oral LDmin. Rat 1000 mg/kg (Maropitant methanesulfonate salt)

Subchronic Oral
NOAEL Dog 5 mg/kg/day, 3 months [Target organ(s): Cardiovascular system (Maropitant methanesulfonate salt)]

Rat 5 mg/kg/day, 3 months [Target organ(s): Liver (Maropitant methanesulfonate salt)]
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>m-Cresol (CAS 108-39-4)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>2050 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>242 mg/kg</td>
</tr>
<tr>
<td><strong>Sulfobutylether b-cyclodextrin sodium (SBECD) (CAS 7585-39-9)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intravenous</td>
<td>Rat/Mouse</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td><strong>Chronic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intravenous</td>
<td>Dog</td>
<td>600 mg/kg/day, 6 months Kidney</td>
</tr>
<tr>
<td>NOAEL</td>
<td>Rat</td>
<td>120 mg/kg/day, 1 months Kidney</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>600 mg/kg/day, 6 months Kidney Liver</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>160 mg/kg/day, 1 months Kidney</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>Maropitant Citrate Salt, Monohydrate</td>
<td>Rabbit</td>
<td>Severity: Non-irritating</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>Sulfobutylether b-cyclodextrin sodium (SBECD)</td>
<td>Rabbit</td>
<td>Severity: Non-irritating</td>
</tr>
<tr>
<td>Maropitant Citrate Salt, Monohydrate</td>
<td>Rabbit</td>
<td>Severity: Severe</td>
</tr>
<tr>
<td>m-Cresol</td>
<td>Rabbit</td>
<td>Severity: Severe</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>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maropitant Citrate Salt, Monohydrate</td>
<td>Guinea Pig</td>
<td>Severity: negative</td>
</tr>
<tr>
<td>Sulfobutylether b-cyclodextrin sodium (SBECD)</td>
<td>Guinea Pig</td>
<td>Severity: positive</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</td>
</tr>
<tr>
<td></td>
<td></td>
<td>than 0.1% are mutagenic or genotoxic.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfobutylether b-cyclodextrin sodium (SBECD)</td>
<td></td>
<td>Bacterial Mutagenicity (Ames)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Result: negative</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Species: Salmonella, E. coli</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In Vitro Chromosome Aberration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Result: negative</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Species: Human lymphocytes</td>
</tr>
</tbody>
</table>
Mutagenicity
Sulfobutylether b-cyclodextrin sodium (SBEDC) In Vivo Micronucleus
Result: negative
Species: Mouse Bone Marrow

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

Maropitant Citrate Salt, Monohydrate Result: Negative (In vitro, in vivo - Maropitant methanesulfonate salt)

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.

Developmental effects
Maropitant Citrate Salt, Monohydrate 150 mg/kg/day Embryo / Fetal Development, Not teratogenic
Result: NOEL
Species: Rat

Sulfobutylether b-cyclodextrin sodium (SBEDC) 1500 mg/kg/day Embryo / Fetal Development, Not Teratogenic
Result: NOAEL
Species: Rabbit
Organ: Intravenous

1500 mg/kg/day Fertility and Embryonic Development, No effects at maximum dose
Result: NOAEL
Species: Rat
Organ: Intravenous

600 mg/kg/day Prenatal & Postnatal Development, Maternal Toxicity
Result: NOAEL
Species: Rat
Organ: Intravenous

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 Based on findings in animal studies, this compound may cause rare but potentially serious cardiac effects in human clinical use. Sulfobutylether b-cyclodextrin sodium (SBEDC) has been associated with toxic effects in the kidney.

12. Ecological information
Ecotoxicity Harmful to aquatic life with long lasting effects. Avoid release to the environment.

<table>
<thead>
<tr>
<th>Components</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maropitant Citrate Salt, Monohydrate (CAS 359875-09-5)</td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>Daphnia magna (Water Flea) 0.6 mg/l, 1.25 Hours</td>
</tr>
<tr>
<td>IC50</td>
<td>Red Algae 0.23 mg/l, 7 Days</td>
</tr>
<tr>
<td>LC50</td>
<td>Cyprinodon variegatus (Sheepshead Minnow) 0.68 mg/l, 48 Hours</td>
</tr>
<tr>
<td></td>
<td>Mysidopsis bahia (Mysis Shrimp) 0.68 mg/l, 48 Hours</td>
</tr>
</tbody>
</table>
Components Test results Species
m-Cresol (CAS 108-39-4)

Aquatic
Crustacea EC50 Scud (Gammarus fasciatus) 7 mg/l, 48 hours
Fish LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss) 8.9 mg/l, 96 hours

Sulfobutylether b-cyclodextrin sodium (SBEC) (CAS 7585-39-9)
EC50 Daphnia magna (Water Flea) > 96 mg/l, 48 Hours
IC50 Green algae > 100 mg/l, Hours
LC50 Oncorhynchus mykiss (Rainbow Trout) > 220 mg/l, 96 Hours

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

Bioaccumulative potential
No data available.

Partition coefficient
n-octanol / water (log Kow)
Maropitant Citrate Salt, Monohydrate 7.75, (Measured, Log P)

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
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).

Poison Schedule (Product) - Schedule 4

APVMA Registration Number: 61840

This SDS replaces version: Issued October 2016
Australia Medicines & Poisons Appendix E
CRESOLS (CAS 108-39-4)

Australia Medicines & Poisons Schedule 2
PHENOL, OR ANY HOMOLOGUE BOILING BELOW 220°C (CAS 108-39-4)

Australia Medicines & Poisons Schedule 5
PHENOL, INCLUDING CRESOLS AND XYLENOLS AND ANY OTHER HOMOLOGUE OF PHENOL BOILING BELOW 220°C (CAS 108-39-4)

Australia Medicines & Poisons Schedule 6
PHENOL, INCLUDING CRESOLS AND XYLENOLS AND ANY OTHER HOMOLOGUE OF PHENOL BOILING BELOW 220.0 DEGREE.C, EXCEPT WHEN SEPARATELY SPECIFIED IN THESE SCHEDULES (CAS 108-39-4)

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 19-April-2017
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
GHS: Classification