SAFETY DATA SHEET

1. Identification

Product identifier: VETSCAN SA Cleaner
Other means of identification: None.
Recommended use of the chemical and restrictions on use
- Recommended use: Veterinary product
- 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: (02) 8876 0444
- 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: Corrosive to metals - Category 1
- Health hazards: Skin corrosion/irritation - Category 1B, Serious eye damage/eye irritation - Category 1, Specific target organ toxicity following single exposure
- Environmental hazards: Hazardous to the aquatic environment, acute hazard - Category 1, Hazardous to the aquatic environment, long-term hazard - Category 2

Label elements, including precautionary statements

Hazard symbol(s)
- Corrosion
- Exclamation mark
- Environment

Signal word: Danger
Hazard statement(s): May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement(s)
- Prevention: Keep only in original container. Do not breathe mist or vapour. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
- Response: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.
Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

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
Contact with acids liberates toxic gas.

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></td>
<td>sodium hypochlorite</td>
<td>7681-52-9</td>
<td>7-20</td>
</tr>
</tbody>
</table>

Composition comments
Other components below reportable levels.

4. First-aid measures

Description of necessary first aid measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist. Call a poison centre or doctor/physician if you feel unwell. For breathing difficulties, oxygen may be necessary. Symptoms may be delayed.

Skin contact
Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Continue rinsing. Get medical attention immediately. Wash contaminated clothing before reuse. Chemical burns must be treated by a physician.

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
If swallowed, do NOT induce vomiting. Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Personal protection for first-aid responders

If exposed or concerned: Get medical advice/attention. You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call. 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.

Symptoms caused by exposure
May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing. Shortness of breath. Symptoms may be delayed.

Medical attention and special treatment
Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Oxygen or artificial respiration if needed. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire. Dry chemicals. ( Ammonium compounds. )

Specific hazards arising from the chemical
Fire may produce irritating, corrosive and/or toxic gases. Some may decompose explosively when heated or involved in a fire.

Special protective equipment and precautions for fire fighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Hazchem code
2X

General fire hazards
Fire may produce irritating, corrosive and/or toxic gases.

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. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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

Methods and materials for containment and cleaning up
Ensure adequate ventilation. Remove sources of ignition. Ventilate the contaminated area. Minimize generating airborne mists and vapors. Wear appropriate protective equipment and clothing during clean-up. Avoid release to the environment. Absorb spillage to prevent material damage.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

Small Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

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

7. Handling and storage

Precautions for safe handling
Use only with adequate ventilation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapour. Minimize generating airborne mists and vapors. Avoid prolonged exposure. Observe good industrial hygiene practices. Handle and open container with care. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Use appropriate container to avoid environmental contamination.

Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Do not store in direct sunlight. Do not store near acids. Use appropriate container to avoid environmental contamination. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.

8. Exposure controls and personal protection

Control parameters
Follow standard monitoring procedures.

Occupational exposure limits
No exposure limits noted for ingredient(s).

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

Exposure guidelines
No exposure standards allocated.

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Ensure adequate ventilation, especially in confined areas. 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) and a face shield. Wear a full-face respirator, if needed.

**Skin protection**
Wear appropriate chemical resistant gloves.

**Hand protection**
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 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.
9. Physical and chemical properties

Appearance

Physical state  Liquid.
Form  Liquid.
Odour  Strong. Chlorine.
Odour threshold  Not available.
pH  11 - 13
Melting point/freezing point  -15 °C (5 °F) (12% solution)
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)  Soluble
Partition coefficient (n-octanol/water)  Not available.
Auto-ignition temperature  Not available.
Decomposition temperature  > 40 °C (> 104 °F)
Viscosity  Not available.
Other physical and chemical parameters

Explosive properties  Not explosive.
Oxidising properties  Not oxidising.
Specific gravity  1.1 - 1.2

10. Stability and reactivity

Reactivity  May be corrosive to metals.
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. Sunlight. Heat. Avoid temperatures exceeding the decomposition temperature. Minimize generating airborne mists and vapors. Keep away from heat, sparks and open flame. Do not mix with other materials. Never add water to this product.
Hazardous decomposition products  Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Chlorine. Hydrogen chloride. Chlorine compounds.

11. Toxicological information

Information on possible routes of exposure

Inhalation  May cause irritation to the respiratory system.
Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Ingestion: May be harmful if swallowed. Causes digestive tract burns. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to exposure: May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing. Shortness of breath. Symptoms may be delayed.

Acute toxicity: May be harmful if swallowed. May be harmful if inhaled. May be harmful in contact with skin.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hypochlorite (CAS 7681-52-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>8.91 g/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes severe skin burns and eye damage.</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory sensitisation</td>
<td>Due to partial or complete lack of data the classification is not possible.</td>
<td></td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Due to partial or complete lack of data the classification is not possible. This product is not expected to cause skin sensitisation.</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Due to partial or complete lack of data the classification is not possible.</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data, the classification criteria are not met.</td>
<td></td>
</tr>
</tbody>
</table>

IARC Monographs. Overall Evaluation of Carcinogenicity:

sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans.

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

Specific target organ toxicity - single exposure: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: Due to partial or complete lack of data the classification is not possible. This product may affect Respiratory system. through prolonged or repeated exposure.

Aspiration hazard: Not an aspiration hazard.

Chronic effects: Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hypochlorite (CAS 7681-52-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Chinook salmon (Oncorhynchus tshawytscha) 0.038 - 0.065 mg/l, 96 hours</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>No data is available on the degradability of this product.</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No data available for this product.</td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available for this product.</td>
<td></td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.</td>
<td></td>
</tr>
</tbody>
</table>
13. Disposal considerations

**Disposal methods**
Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not dispose of waste into sewer. 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**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1791</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Hypochlorite solution</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>8</td>
</tr>
<tr>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Yes</td>
</tr>
<tr>
<td>Hazchem code</td>
<td>2X</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
</tbody>
</table>

**RID**

<table>
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<th>UN number</th>
<th>UN1791</th>
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<tr>
<td>UN proper shipping name</td>
<td>Hypochlorite solution</td>
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<td>Transport hazard class(es)</td>
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<tr>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td>Subsidiary risk</td>
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<tr>
<td>Label(s)</td>
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<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
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</tr>
<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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</tbody>
</table>

**IATA**

<table>
<thead>
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<th>UN number</th>
<th>UN1791</th>
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</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Hypochlorite solution</td>
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<tr>
<td>Transport hazard class(es)</td>
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</tr>
<tr>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
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</tr>
<tr>
<td>ERG Code</td>
<td>8L</td>
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<tr>
<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
<tr>
<td>Other information</td>
<td>Allowed with restrictions.</td>
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</table>

**IMDG**

<table>
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<th>UN1791</th>
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<td>UN proper shipping name</td>
<td>HYPOCHLORITE SOLUTION</td>
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<td>Transport hazard class(es)</td>
<td>8</td>
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<tr>
<td>Class</td>
<td>8</td>
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<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>MARINE POLLUTANT</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>MARINE POLLUTANT</td>
</tr>
<tr>
<td>EmS</td>
<td>F-A, S-B</td>
</tr>
</tbody>
</table>
Read safety instructions, SDS and emergency procedures before handling.

Not established.

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

ADG

IATA; IMDG; RID

Marine pollutant

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant. [Marine pollutant >5L /5Kg.]

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 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
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.

Australia National Pollutant Inventory (NPI): Threshold quantity
sodium hypochlorite (CAS 7681-52-9) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)
sodium hypochlorite (CAS 7681-52-9) 100000 - 999999 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>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>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>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
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</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 02-October-2019

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.