Section 1 - Identification of the Substance/Mixture and Supplier

Zoetis Australia Pty Ltd
ABN 94 156 476 425
Level 6, 5 Rider Blvd
Rhodes NSW 2138 AUSTRALIA
Tel: 1800 814 883
Fax: (02) 8876 0444
Email: ProductSupport.au@zoetis.com

Product Identifier: Equivac® 2 in 1 Vaccine
Other names: None.
APVMA Approval No: 51773
Chemical family: A combination of the inactivated toxin of Clostridium tetani and the cell-free extract of Streptococcus equi organisms.
Recommended Use: Used in the prevention of tetanus and in the control of strangles due to Streptococcus equi.
Restrictions on use For veterinary use only.
Emergency Phone: 1800 814 883 (all hours)

Section 2 - Hazards Identification

Statement of Hazardous Nature
This product is classified as: Not classified as hazardous according to the criteria of SWA.
Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

Risk Phrases: Not Hazardous - No criteria found.
ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

GHS Label Elements: None
Signal word: None – Not hazardous.

GHS Classification: Not hazardous.

PREVENTION
P102: Keep out of reach of children.
P262: Do not get in eyes, on skin, or on clothing.
P281: Use personal protective equipment as required.

RESPONSE
P353: Rinse skin or shower with water.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE
P410: Protect from sunlight.
P411: Store at temperatures preferably between 2 and 8°C, but do not freeze.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL
P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Other/supplementary hazards. None known.

Physical Description & colour: Aqueous suspension.
Odour: No odour.
Major Health Hazards: no significant risk factors have been found for this product.
No specific medical attention is advised. Treat symptomatically.

Inactivated cultures and toxoids are not regarded as pathogenic in humans.
Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc.,%</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjuvant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thiomersal</td>
<td>54-64-8</td>
<td>0.1g/L</td>
<td>not set</td>
<td>not set</td>
</tr>
<tr>
<td>Saline suspension *</td>
<td></td>
<td>to 100%</td>
<td></td>
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</tr>
</tbody>
</table>

* Containing:
  inactivated toxin of *Clostridium tetani* and the cell-free extract of *Streptococcus equi* organisms

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:
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 11 26 from anywhere in Australia and is available at all times. Have this SDS with you when you call.

Self Injection: Accidental self injection may lead to an inflammatory response. Medical advice should be sought on the management of deep injections, particularly those near a joint or associated with bruising. If possible the application of gentle squeezing pressure with absorbent material (e.g. facial tissues) at the injection site will swab up unabsorbed vaccine. Strong squeezing of the site should be avoided. The damaged area should be thoroughly cleansed and a topical antiseptic applied. Check your tetanus immunisation status.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Most Important Symptoms and Effects, Both Acute and Delayed
Symptoms and Effects of Exposure: None known.
Medical Conditions Aggravated by Exposure: None known.
Indication of the Immediate Medical Attention and Special Treatment Needed: None known.
Notes to Physician: None.
However it is good practice to wear latex gloves when handling injectables. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

**Environmental Precautions:** None.

**Methods and Material for Containment and Cleaning Up.** This product is sold in small packages. No special measures are usually necessary following spills.

**Measures for Cleaning / Collecting:** Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible absorbent material and transfer into a labelled container for disposal.

**Additional Consideration for Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

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### Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Refrigerate, preferably between 2 and 8°C, but do not freeze. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under “Incompatibilities” in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label. Protect containers against physical damage and check regularly for leaks.

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### Section 8 - Exposure Controls and Personal Protection

**Control Parameters:**

The following Australian Standards will provide general advice regarding safety clothing and equipment:


<table>
<thead>
<tr>
<th>SWA Exposure Limits</th>
<th>TWA (mg/m^3)</th>
<th>STEL (mg/m^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure limits</td>
<td></td>
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</tbody>
</table>

**Engineering Controls:** No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

**Eye Protection:** Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

**Skin Protection:** The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

**Protective Material Types:** There is no specific recommendation for any particular protective material type.

**Respirator:** Not required for the normal use of this product. 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. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

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### Section 9 - Physical and Chemical Properties:

- **Appearance:** Aqueous suspension.
- **Odour:** No odour.
- **Odour Threshold:** No data.
- **pH:** No data.
- **Freezing/Melting Point:** Approximately 0°C.
- **Boiling Point:** Approximately 100°C at 100kPa.
- **Flash point:** Does not burn.
- **Upper Flammability Limit:** Does not burn.
- **Lower Flammability Limit:** Does not burn.
- **Autoignition temperature:** Not applicable - does not burn.
### Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Stability:** Stable if stored under normal conditions.

**Conditions to Avoid:** Refrigerate, preferably between 2 and 8°C, but do not freeze. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** No particular Incompatibilities.

**Hazardous decomposition products:** No specific data. Based on composition of bacteria and viruses, the following might be expected in small quantities: Carbon dioxide, and if combustion is incomplete, carbon monoxide and possibly smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds; also water. Also very small quantities of mercury and aluminium compounds.

**Polymerisation:** This product will not undergo polymerisation reactions.

### Section 11 - Toxicological Information

#### Symptoms caused by Exposure

**General Information:** No data.

**Routes of exposure:** No data.

**Symptoms of exposure:** No data.

**Inhalation:**
- **Short term exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.
- **Long Term exposure:** No data for health effects associated with long term inhalation.

**Skin Contact:**
- **Short term exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.
- **Long Term exposure:** No data for health effects associated with long term skin exposure.

**Eye Contact:**
- **Short term exposure:** This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.
- **Long Term exposure:** No data for health effects associated with long term eye exposure.
Ingestion:

**Short term exposure:** Significant oral exposure is considered to be unlikely. However, this product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

**Long Term exposure:** No data for health effects associated with long term ingestion.

**Specific Target Organ Toxicity (STOT) – single exposure:** No data.

**Specific Target Organ Toxicity (STOT) – repeated exposure:** No data.

**Aspiration Hazard:** No data.

**Early Onset Symptoms Related to Exposure:** No data.

**Delayed Health Effects from Exposure:** No data.

**Exposure Levels and Health Effects:** No data.

**Interactive Effects:** No data.

### Classification of Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.</td>
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</tbody>
</table>

There is no data to hand indicating any particular target organs.

**Respiratory or Skin Sensitisation:** No data.

**Germ Cell Mutagenicity:** No data.

**Carcinogenicity:** No data.

**Reproductive Toxicity:** No data.

### Section 12 - Ecological Information

Insufficient data to be sure of status. Expected to not be an environmental hazard.

**Toxicity information:** No data.

**Persistence and degradability:** No data.

**Bioaccumulative potential:** No data.

**Mobility in soil:** No data.

**Other adverse effects:** No data.

### Section 13 - Disposal Considerations

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled sharps container. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

### Section 14 - Transport Information

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

**Special precaution for user:** None known.

**Additional Information:** None known.

**Environmental Hazard:** None known.

### Section 15 - Regulatory Information

**Poison Schedule:** None allocated

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.
Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Acronyms:
- ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
- AICS: Australian Inventory of Chemical Substances
- SWA: Safe Work Australia, formerly ASCC and NOHSC
- CAS number: Chemical Abstracts Service Registry Number
- Hazchem Code: Emergency action code of numbers and letters that provide information to emergency services especially firefighters
- IARC: International Agency for Research on Cancer
- NOS: Not otherwise specified
- NTP: National Toxicology Program (USA)
- R-Phrase: Risk Phrase
- SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
- UN Number: United Nations Number

This version issued: 24 March 2020 and is valid for 5 years from this date.

Supersedes: Version issued 21 May 2015

Revision History:

<table>
<thead>
<tr>
<th>Date of Revision</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 March 2020</td>
<td>Planned revision</td>
</tr>
</tbody>
</table>

Contact Points:

Zoetis: 1800 814 883
Police and Fire Brigade: Dial 000

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

THIS SDS SUMMARISES OUR CURRENT AND BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION ABOUT THE PRODUCT DETAILED IN THIS SDS, AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE FOR THE RECOMMENDED USE. EACH USER OF THE PRODUCT MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THEIR OWN WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT ZOETIS.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document “Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice” (May 2018)
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Originally prepared by Kilford & Kilford Pty Ltd

End of Safety Data Sheet