Product Name: Leptoshield® Vaccine

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# Section 1 - Identification of Chemical Product and Company



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Pfizer Australia Pty Ltd

A.B.N. 50 008 422 348

Substance: Water solution of ingredients.

Trade Name: Leptoshield® Vaccine

Pfizer MSDS Code: 0503

**Product Use:** For the prevention of leptospirosis in cattle.

Creation Date: October, 2004

**This version issued:** April, 2010 and is valid for 5 years from this date.

### **Section 2 - Hazards Identification**

#### Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of SWA Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** Not Hazardous - No criteria found. **Safety Phrases:** Not Hazardous - No criteria found.

**SUSDP Classification:** S2 (NZ)

ADG Classification: None allocated. Not a Dangerous Good.

**UN Number:** None allocated

### **Emergency Overview**

Physical Description & colour: Aqueous liquid suspension.

Odour: No data.

Major Health Hazards: no significant risk factors have been found for this product.

#### **Potential Health Effects**

#### Inhalation

**Short term exposure:** Significant inhalation exposure is considered to be unlikely. 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. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases.

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

#### **Eye Contact:**

**Short term exposure:** Exposure via eyes is considered to be unlikely. 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. This product is unlikely to cause any irritation problems in the short or long term.

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

#### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

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# **Section 3 - Composition/Information on Ingredients**

Ingredients	CAS No	Conc,%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Formol cultures of Leptospira interrogans serovar pomona				
Leptospira borgpeterseni serovar hardjo	not set	<0.1	not set	not set
Adjuvant	secret	<0.5	not set	not set
Thiomersal	54-64-8	0.01	not set	not set
Water	7732-18-5	to 100	not set	not set

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

The 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 should not be exceeded for more than 15 minutes and should not be repeated for 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 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS 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.

**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. If in doubt obtain medical advice.

**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.

**Ingestion:** If product is swallowed or gets in mouth, 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.

# **Section 5 - Fire Fighting Measures**

**Fire and Explosion Hazards**: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Fire decomposition products from this product are not expected to be hazardous or harmful.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials. **Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

**Autoignition temperature:** Not applicable - does not burn.

Flammability Class: Does not burn.

### **Section 6 - Accidental Release Measures**

### **Minor Spills:**

- 1. Clean up all spills immediately.
- 2. Avoid contact with skin and eyes.
- 3. Wear impervious gloves and safety glasses.
- 4. Place spilled material in clean, dry, sealable, labelled container. Wash spill area with large quantities of water.

Major Spills: Not applicable.

#### Disposal:

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1. Dilute with water and flush to sewer.

- 2. Decontaminate empty containers with water.
- 3. Recycle containers if possible, or dispose of in authorised landfill. Used needles should immediately be placed in a designated and appropriately labelled "sharps" container.

May be disposed of in accordance with any label recommendations provided by the manufacturer.

# **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 MSDS 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:** Store at 2-8°C (refrigerate). Do not freeze. Protect from light.

- 1. Store in original containers.
- 2. Keep containers securely sealed.
- 3. Store in a cool, dry, well-ventilated area.
- 4. Store away from incompatible materials and foodstuff containers.
- 5. Protect containers against physical damage and check regularly for leaks.
- 6. Observe manufacturer's storage and handling recommendations.

This product is a Schedule 6 Poison in Australia. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

## **Section 8 - Exposure Controls and Personal Protection**

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

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

### SWA Exposure Limits TWA (mg/m³) STEL (mg/m³)

Exposure limits have not been established by SWA for any of the known significant ingredients in this product.

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.

**Ventilation:** 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:** We suggest that protective clothing be made from the following materials.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

# **Section 9 - Physical and Chemical Properties:**

Physical Description & colour: Aqueous liquid suspension.

Odour: No data.

**Boiling Point:** Approximately 100°C at 100kPa.

Freezing/Melting Point: Approximately 0°C. Volatiles: Water component.

**Vapour Pressure:** 2.37 kPa at 20°C (water vapour pressure).

Vapour Density: No data. Specific Gravity: 1.01

Water Solubility: Completely soluble in water.

pH: No data.

Volatility: No data.

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water distribution: No data

**Autoignition temp:** Not applicable - does not burn.

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## 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.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** No particular Incompatibilities.

**Fire Decomposition:** No specific data. Based on composition of proteins and fats, the following might be expected in very small concentrations: Carbon dioxide, and if combustion is incomplete, carbon monoxide and 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. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

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

# **Section 11 - Toxicological Information**

**Target Organs:** There is no data to hand indicating any particular target organs.

### Classification of Hazardous Ingredients

Ingredient Risk Phrases

No ingredient mentioned in the HSIS database is present in this product at hazardous concentrations. Inactivated cultures and toxoids are not regarded as pathogenic in humans.

## **Section 12 - Ecological Information**

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

## **Section 13 - Disposal Considerations**

**Disposal:** Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

# **Section 14 - Transport Information**

**ADG Code:** This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

# **Section 15 - Regulatory Information**

**AICS:** We are unable to verify the presence of all of the ingredients in this product on the public AICS database. However this is not a necessary requirement for registered Ag/Vet products. If you have any reason to be concerned about this, we suggest you call us on the number below.

#### **Section 16 - Other Information**

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

**Acronyms:** 

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS Australian Inventory of Chemical Substances
CAS number Chemical Abstracts Service Registry Number

Hazchem Number Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

IARC International Agency for Research on Cancer
SWA Safe Work Australia, formerly ASCC and NOHSC

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSDP Standard for the Uniform Scheduling of Drugs & Poisons

**UN Number** United Nations Number

**Contact Points:** 

Pfizer (02)9850 3333 (Business hours)

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Phone: (02)9850 3333

Ask for Environmental Health & Safety Manager
Police and Fire Brigade: Dial 000

If ineffective:

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

Please read all labels carefully before using product.

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