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## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Pfizer Animal Health** Pfizer Ltd. Pfizer Inc Kent 235 East 42nd Street **CT13 9NJ** New York, NY 10017 **United Kingdom** Poison Control Center Phone: 1-866-531-8896 +00 44 (0)1304 616161

Technical Services Phone: 1-800-366-5288

**Emergency telephone number:** 

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: pfizer-MSDS@pfizer.com **Emergency telephone number:** 

ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Spirovac L5 (Leptospira canicola-grippotyphosa-hardjo-icterhaemorrhagiaepomona Bacterin)

**Trade Name:** Spirovac L5 **Chemical Family:** Mixture

Intended Use: Veterinary Vaccine

## 2. HAZARDS IDENTIFICATION

Opaque light brown to gray liquid Appearance:

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Additional Hazard Information:

**Short Term:** 

In the event of accidental injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate

therapy instituted.

**EU Indication of danger:** Not classified

**Australian Hazard Classification** 

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

This document has been prepared in accordance with standards for workplace safety, which Note:

require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous**

| Ingredient               | CAS Number | EU EINECS/ELINCS List | Classification                    | %  |
|--------------------------|------------|-----------------------|-----------------------------------|----|
| Merthiolate (as mercury) | 54-64-8    | 200-210-4             | N; R50/53<br>R33<br>T+; R26/27/28 | ## |

| Ingredient CAS Number | EU EINECS/ELINCS List | Classification | % |
|-----------------------|-----------------------|----------------|---|
|-----------------------|-----------------------|----------------|---|

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| Leptospira canicola            | NOT ASSIGNED | Not listed | Not Listed | * |
|--------------------------------|--------------|------------|------------|---|
| Leptospira grippotyphosa       | NOT ASSIGNED | Not listed | Not Listed | * |
| Leptospira hardjo              | NOT ASSIGNED | Not listed | Not Listed | * |
| Leptospira icterohaemorrhagiae | NOT ASSIGNED | Not listed | Not Listed | * |
| Leptospira pomona              | NOT ASSIGNED | Not listed | Not Listed | * |

Additional Information: \* Proprietary

## Trace

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get

medical attention.

**Skin Contact:** Wash skin with soap and water. If irritation occurs or persists, get medical attention.

**Ingestion:** Get medical attention. Do not induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention

immediately.

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Identification and/or Section 11 - Toxicological Information.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** As for primary cause of fire.

Hazardous Combustion Products: Not known

Fire Fighting Procedures: During all fire fighting activities, wear appropriate protective equipment, including self-

contained breathing apparatus.

Fire / Explosion Hazards: Not applicable

### 6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see

Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

area thoroughly.

**Measures for Environmental** 

Protections:

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to

avoid environmental release.

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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## 7. HANDLING AND STORAGE

**General Handling:** Use with adequate ventilation. Use appropriate personal protective equipment. Avoid

breathing vapor or mist. Avoid contact with eyes, skin and clothing.

**Storage Conditions:** Store under refrigeration in closed container.

Storage Temperature: 2-7°C (35 to 45°F)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Merthiolate (as mercury)

ACGIH Threshold Limit Value (TWA)0.01 mg/m³ TWAACGIH Threshold Limit Value (STEL)0.03 mg/m³ STEL

**ACGIH - Skin Absorption Designation** Listed **Australia STEL**  $0.03 \text{ mg/m}^3$ **Australia TWA** 0.01 mg/m<sup>3</sup> **Austria OEL - MAKs** Listed **Belgium OEL - TWA** Listed **Bulgaria OEL - TWA** Listed Listed **Bulgaria - Biological Exposure Limit:** Czech Republic OEL - TWA Listed **Denmark OEL - TWA** Listed Estonia OEL - TWA Listed **Finland OEL - TWA** Listed France OEL - TWA Listed **Germany - Biological Exposure Limit:** Listed **Greece OEL - TWA** Listed **Hungary OEL - TWA** Listed **Ireland OEL - TWAs** Listed Lithuania OEL - TWA Listed **OSHA - Final PELS - TWAs:** 0.01 mg/m<sup>3</sup> **Poland OEL - TWA** Listed Portugal OEL - TWA Listed **Romania - Biological Exposure Limit:** Listed Slovak Republic - Biological Exposure Limit: Listed Slovenia OEL - TWA Listed

See exposure limits for component (s) listed above.

Spain OEL - TWA

Sweden OEL - TWAs

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Exposure

monitoring may be necessary to determine requirements.

Listed

Listed

Environmental Exposure Controls: Refer to specific Member State legislation for requirements under Community environmental

legislation.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

Hands: Rubber gloves

**Eyes:** Safety glasses or goggles

**Skin:** Wear protective clothing when working with large quantities. Wash hands and arms thoroughly

after handling this material.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory protection:** In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures

below the OEL.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Light brown to gray

Molecular Formula: Mixture Molecular Weight: Mixture

Solubility: Aqueous solution Water

**pH:** 7.0 +/- 1.5 **Specific Gravity:** 1.01-1.03

Flash Point (Liquid) (°C):

Polymerization:

Non-flammable
Will not occur

### 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do

not freeze.

Incompatible Materials: This material can be denatured or inactivated by a variety of organic solvents, salts or heavy

metals.

Hazardous Decomposition Products: None expected under normal conditions.

### 11. TOXICOLOGICAL INFORMATION

**General Information:** The antigens included in this product are non-infectious. All have been prepared from killed or

inactivated preparations of microorganisms.

Acute Toxicity: (Species, Route, End Point, Dose)

Merthiolate (as mercury)

Rat Oral LD50 75 mg/kg

Rat Subcutaneous LD50 98 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Merthiolate (as mercury)

Eye Irritation Rabbit Mild

No data available

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to

the environment should be avoided.

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## 13. DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. 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. This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA Toxicity Characteristic Leaching Procedure (TCLP).

### 14. TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

EU Indication of danger: Not classified

#### **OSHA Label:**

Non-hazardous in accordance with international standards for workplace safety.

## Canada - WHMIS: Classifications

### WHMIS hazard class:

None required

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### Merthiolate (as mercury)

CERCLA/SARA 313 Emission reporting 1.0% Supplier notification limit

California Proposition 65 Developmental

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Listed

**REACH - Annex XVII - Restrictions on Certain**Use restricted. See item 18.

Dangerous Substances:

EU EINECS/ELINCS List 200-210-4

## 16. OTHER INFORMATION

## Text of R phrases mentioned in Section 3

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R33 - Danger of cumulative effects.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

**Data Sources:** Pfizer proprietary drug development information. Publicly available toxicity information. Safety

data sheets for individual ingredients.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 11 - Toxicology Information. Updated Section 13 - Disposal Considerations. Updated Section 15 - Regulatory

Information.

Prepared by: Toxicology and Hazard Communication

Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material 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.

**End of Safety Data Sheet**