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# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Pirlimycin Hydrochloride Sterile Solution

Trade Name: PIRSUE(R)
Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary product used as antibiotic for intramammary infusion

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.

100 Campus Drive, P.O. Box 651

Florham Park, New Jersey 07932 (USA)

Zoetis Belgium S.A.

Mercuriusstraat 20
1930 Zaventem

Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: VMIPSrecords@zoetis.com

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

#### 2. HAZARDS IDENTIFICATION

**Belgium** 

Appearance: Aqueous solution

Classification of the Substance or Mixture

GHS - Classification Not classified as hazardous

**EU Classification:** 

EU Indication of danger: Not classified

**Label Elements** 

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards

Short Term: May cause allergic reactions in susceptible individuals. May cause eye and skin irritation

**Known Clinical Effects:** Ingestion of this material may cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting, transient diarrhea, nausea, and

abdominal pain.

**Australian Hazard Classification** 

(NOHSC):

Non-Hazardous Substance. Non-Dangerous Goods.

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

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

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

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous** 

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Pirlimycin Hydrochloride	77495-92-2	Not Listed	Xi; R38-41	Eye Dam. 1, H318; Skin Irrit. 2, H315	0.5

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

safety

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Eye Contact: Flush eye(s) immediately with plenty of water. If irritation occurs or persists, get medical

attention.

**Skin Contact:** Remove contaminated clothing and wash exposed area with soap and water. Obtain medical

assistance if irritation occurs.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

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**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

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

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** Formation of toxic gases is possible during heating or fire.

**Products:** 

**Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

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**Environmental Precautions** 

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

Methods and Material for Containment and Cleaning Up

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

**Collecting:** area thoroughly.

Additional Consideration for Non-essential personnel should be evacuated from affected area. Report emergency

Large Spills: situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Use only in well-ventilated areas. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Prevent environmental releases. Use appropriate personal protective equipment. Avoid accidental injection.

Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store as directed by product packaging.

Specific end use(s): No data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

No Occupational Exposure Limit (OEL) or Short Term Exposure Limit (STEL) has been identified.

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Pirlimycin Hydrochloride

**Equipment:** 

**Zoetis OEB** OEB 3 (control exposure to the range of 10ug/m³ to < 100ug/m³)

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. Use process

containment, local exhaust ventilation, or other engineering controls to maintain airborne levels

within the OEB range.

Personal Protective

Refer to applicable national standards and regulations in the selection and use of personal

protective equipment (PPE).

**Hands:** Wear impervious gloves if skin contact is possible.

Eyes: Safety glasses or goggles

**Skin:** Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and

laboratory areas.

**Respiratory protection:** If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear

an appropriate respirator with a protection factor sufficient to control exposures to the bottom of

the OEB range.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Aqueous solution Color: Clear

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
Solubility:
Solubility:
Solubile: Water
PH:
No data available
No data available.
No data available.
No data available.
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available
No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable at normal conditions

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

**Hazardous Decomposition** No data available

**Products:** 

#### 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

**General Information:** Toxicological properties of the formulation have not been investigated. The information

included in this section describes the potential hazards of the individual ingredients.

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

Pirlimycin Hydrochloride

Mouse Oral LD 50 2524 mg/kg

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

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## 11. TOXICOLOGICAL INFORMATION

#### Pirlimycin Hydrochloride

Eye Irritation Rabbit Severe Skin Irritation Rabbit Moderate

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Pirlimycin Hydrochloride

14 Day(s) Rabbit Oral 50 mg/kg/day NOEL Gastrointestinal System

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Pirlimycin Hydrochloride

2 Generation Reproductive Toxicity Rat 400 mg/kg/day NOEL Maternal toxicity, Not teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Pirlimycin Hydrochloride

Bacterial Mutagenicity (Ames) Salmonella Negative
Mammalian Cell Mutagenicity HGPRT Negative
In Vitro Micronucleus Rat Negative

In Vitro Unscheduled DNA Synthesis Rat Negative

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

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties of the formulation have not been investigated. Releases to the

environment should be avoided. See Aquatic toxicity data of the active ingredient, below:

**Toxicity:** 

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Pirlimycin Hydrochloride

Daphnia magna (Water Flea) TAD EC50 48 Hours 190 mg/L

Lepomis macrochirus (Bluegill Sunfish) TAD LC50 96 Hours > 990 mg/L Selenastrum capricornutum (Green Alga) Surrogate EC50 48 Hours 0.060 mg/L

Oncorhynchus mykiss (Rainbow Trout) TAD LC50 96 Hours > 970 mg/L

Aquatic Toxicity Comments: A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum

dose tested.

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** 

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.

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#### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Non-controlled

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.

Pirlimycin Hydrochloride

CERCLA/SARA 313 Emission reporting

California Proposition 65

EU EINECS/ELINCS List

Not Listed

Not Listed

#### **16. OTHER INFORMATION**

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

H318 - Causes serious eye damage

H315 - Causes skin irritation

Xi - Irritant

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

Data Sources:

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

PIRLIMYCIN HYDROCHLORIDE STERILE SOLUTION

Material Name: Pirlimycin Hydrochloride Sterile Solution

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**Reasons for Revision:** Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 15 -

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Regulatory Information.

Prepared by: Toxicology and Hazard Communication

Zoetis Global Risk Management

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.

**End of Safety Data Sheet**