

Revision date: 06-Jan-2014

Version: 2.0

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

**Product Identifier** 

Material Name: Ceftiofur Hydrochloride Sterile Suspension

Trade Name:
Synonyms:
Chemical Family:

Excenel RTU Sterile Suspension Excenel RTU Cephalosporin antibiotic b-lactam antibiotic, b-lactamase inhibitor

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary product used as antibiotic agent.

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

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

## 2. HAZARDS IDENTIFICATION

Appearance: Off-white to pale buff colored suspension Classification of the Substance or Mixture GHS - Classification

Xn

Respiratory Sensitization: Category 1 Skin Sensitization: Category 1

#### EU Classification:

EU Indication of danger: Harmful

EU Symbol: EU Risk Phrases:

R42/43 - May cause sensitization by inhalation and skin contact.

#### Label Elements

Signal Word:	Danger
Hazard Statements:	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H317 - May cause an allergic skin reaction

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Precautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
	P284 - Wear respiratory protection
	P272 - Contaminated work clothing should not be allowed out of the workplace
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or
	doctor/physician
	P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
	P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
	P362 - Take off contaminated clothing and wash before reuse

P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards Known Clinical Effects:

Australian Hazard Classification (NOHSC):

Note:

Individuals who are sensitive to beta lactam antibiotics, both penicillins and cephalosporins, may experience contact or systemic hypersensitivity and anaphylaxis upon exposure to this drug.

Hazardous Substance. Non-Dangerous Goods.

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.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Ceftiofur Hydrochloride	103980-44-5	Not Listed	Xn; R42/43	Resp. Sens. 1 (H334) Skin Sens. 1 (H317)	5

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Hydrogenated Soy Lecithin	97281-48-6	306-549-5	Not Listed	Not Listed	*
Cottonseed Oil	8001-29-4	232-280-7	Not Listed	Not Listed	*
Sorbitan oleate	1338-43-8	215-665-4	Not Listed	Not Listed	*

Additional Information:

\* Proprietary

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

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#### 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 with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
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.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Most Important Symptoms and Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure:	cts, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known

Indication of the Immediate Medical Attention and Special Treatment Needed None

Notes to Physician:

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Extinguish fires with CO2, extinguishing powder, foam, or water.
Special Hazards Arising from the Su	
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide, oxides of nitrogen, sulfur, hydrogen chloride and other chlorine- and sulfur-containing compounds
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.

#### **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 / Collecting:	Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.
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

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

Keep away from heat, sparks, and flame. Minimize generating airborne mists and vapors. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Releases to the environment should be avoided. Use appropriate personal protective equipment. Avoid accidental injection.

Conditions for Safe Storage, Inclu	Iding any Incompatibilities
Storage Conditions:	Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.
Specific end use(s):	No data available
8. EXPO	SURE CONTROLS / PERSONAL PROTECTION
Control Parameters Refer to available public inf	ormation for specific member state Occupational Exposure Limits.
Ceftiofur Hydrochloride	
Zoetis OEL TWA 8-hr	200µg/m³, Sensitizer
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.
Eyes:	Wear safety glasses or goggles if eye contact is possible.
Skin:	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.
Respiratory protection:	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Suspension	Color:	Off-white to pale buff- colored
Odor:	No data available.	Odor Threshold:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solvent Solubility:	No data available		
Water Solubility:	No data available		
pH:	No data available.		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available.		
Partition Coefficient: (Method, pH, E	indpoint, Value)		
No data available Decomposition Temperature (°C):	No data available.		
Evaporation Rate (Gram/s):	No data available		
Vapor Pressure (kPa):	No data available		
Vapor Density (g/ml):	No data available		
Relative Density:	No data available		

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Viscosity:

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 No data available No data available

## **10. STABILITY AND REACTIVITY**

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

## **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)

#### Ceftiofur Hydrochloride

RatOralLD 50>7760 mg/kgRatSub-tenon injection (eye)LD 50927mg/kgRatInhalationLC 50>8.3mg/L

#### **Cottonseed Oil**

Rat Oral LD50 > 90 ml/kg Acute Toxicity Comments:

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

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

Ceftiofur Hydrochloride Eye Irritation Rabbit Minimal Skin Irritation Rabbit Minimal

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

### Ceftiofur Hydrochloride

90 Day(s) Dog Oral 30 mg/kg/day NOEL Blood forming organs

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

Ceftiofur Hydrochloride

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### 11. TOXICOLOGICAL INFORMATION

2 Generation Reproductive Toxicity Rat Oral 1000 mg/kg/day NOEL Fetotoxicity Embryo / Fetal Development Rat Oral 3200 mg/kg/day NOAEL Not Teratogenic

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

#### Ceftiofur Hydrochloride

Bacterial Mutagenicity (Ames)	Salm	onella , E. coli	Negative	
Unscheduled DNA Synthesis	Rat	Negative		
Mammalian Cell Mutagenicity	Chine	ese Hamster Ovar	y (CHO) cells	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 have not been thoroughly investigated. Releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available

### **13. DISPOSAL CONSIDERATIONS**

Waste Treatment Methods:Dispose of waste in accordance with all applicable laws and regulations. Member State<br/>specific and Community specific provisions must be considered. Considering the relevant<br/>known environmental and human health hazards of the material, review and implement<br/>appropriate technical and procedural waste water and waste disposal measures to prevent<br/>occupational exposure and environmental release. It is recommended that waste minimization<br/>be practiced. The best available technology should be utilized to prevent environmental<br/>releases. This may include destructive techniques for waste and wastewater.

### **14. TRANSPORT INFORMATION**

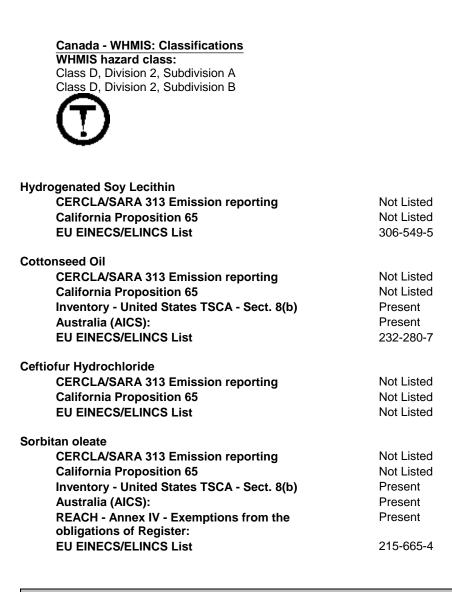
#### The following refers to all modes of transportation unless specified below.

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

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### **15. REGULATORY INFORMATION**

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



### **16. OTHER INFORMATION**

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

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H317 - May cause an allergic skin reaction

R42/43 - May cause sensitization by inhalation and skin contact.

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Data Sources:	The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.
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 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 15 - Regulatory Information.
Prepared by:	Toxicology and Hazard Communication Zoetis Global Risk Management

Zoetis 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