

Revision date: 06-Jan-2014 Version: 3.0 Page 1 of 8

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

**Product Identifier** 

Material Name: Ceftiofur Crystalline Free Acid Sterile Suspension

Excede; Naxcel **Trade Name:** 

**Chemical Family:** Mixture

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. Zoetis Belgium S.A. 100 Campus Drive, P.O. Box 651 Mercuriusstraat 20 Florham Park, New Jersey 07932 (USA) 1930 Zaventem **Belgium** 

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

Contact E-Mail: VMIPSrecords@zoetis.com

## 2. HAZARDS IDENTIFICATION

Appearance: Opaque suspension

**Classification of the Substance or Mixture** 

**GHS - Classification** 

Respiratory Sensitization: Category 1 Skin Sensitization: Category 1

**EU Classification:** 

EU Indication of danger: Harmful

EU Symbol: Xn

EU Risk Phrases:

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

**Label Elements** 

Signal Word: Danger

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled **Hazard Statements:** 

H317 - May cause an allergic skin reaction

Material Name: Ceftiofur Crystalline Free Acid Sterile Page 2 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

**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

**Short Term:** May produce slight eye irritation. May cause slight skin irritation. (based on components) . If an

allergic reaction occurs, the worker should be removed to the nearest emergency room and the

appropriate therapy instituted.

Known Clinical Effects: 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. 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. Effects on blood and blood-forming organs have also occurred.

**Australian Hazard Classification** 

(NOHSC):

Note:

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	<b>EU Classification</b>	GHS	%
		EINECS/ELINCS		Classification	
		List			
Ceftiofur Crystalline Free Acid	80370-57-6	Not Listed	Xn; R42/43	Resp Sens 1 (H334)	20
				Skin Sens 1 (H317)	

Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Caprylic/Capric triglyceride	73398-61-5	277-452-2	Not Listed	Not Listed	*
Cottonseed Oil	8001-29-4	232-280-7	Not Listed	Not Listed	*

Material Name: Ceftiofur Crystalline Free Acid Sterile Page 3 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

Additional Information: \* Proprietary

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 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 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 Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other

**Products:** sulfur-containing compounds.

**Fine / 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 / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

**Collecting:** area thoroughly.

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Material Name: Ceftiofur Crystalline Free Acid Sterile Page 4 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

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.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Keep away from heat, sparks, and flame. Avoid breathing vapor or mist. 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, 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** 

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

**Ceftiofur Crystalline Free Acid** 

**Zoetis OEL TWA 8-hr** 200µg/m³, Sensitizer

**Exposure Controls** 

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

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.

Refer to applicable national standards and regulations in the selection and use of personal **Personal Protective** protective equipment (PPE). **Equipment:** 

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Wear safety glasses or goggles if eye contact is possible. Eyes:

Impervious protective clothing is recommended if skin contact with drug product is possible and Skin:

for bulk processing operations.

If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate Respiratory protection:

respirator with a protection factor sufficient to control exposures to below the OEL.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Suspension Color: Opaque

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 :Ha No data available. **Melting/Freezing Point (°C):** No data available **Boiling Point (°C):** No data available. Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available. **Evaporation Rate (Gram/s):** No data available

Material Name: Ceftiofur Crystalline Free Acid Sterile Page 5 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

Vapor Pressure (kPa):No data availableVapor Density (g/ml):No data available

Relative Density: No data available Viscosity: No data available

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data availableLower Explosive Limits (Liquid) (% by Vol.):No data available

Polymerization: Will not occur

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**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)

**Ceftiofur Crystalline Free Acid** 

Rat Oral LD 50 >7760 mg/kg

Rat Sub-tenon injection (eye) LD 50 927mg/kg

Rat Inhalation LC 50 >8.3mg/L

Caprylic/Capric triglyceride

Rat Oral LD50 > 5000 mg/kg

**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 Crystalline Free Acid** 

Eye Irritation Rabbit Minimal Skin Irritation Rabbit Minimal

Antigenicity- Passive cutaneous anaphylaxis Guinea Pig Negative

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Material Name: Ceftiofur Crystalline Free Acid Sterile Page 6 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

# 11. TOXICOLOGICAL INFORMATION

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

#### **Ceftiofur Crystalline Free Acid**

30 Day(s) Rat Oral <1500 mg/kg/day NOEL Gastrointestinal System 90 Day(s) Oral 30 mg/kg/day NOEL Gastrointestinal system Rat 51 Day(s) Oral 300 mg/kg/day Dog LOAEL Blood forming organs 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 Crystalline Free Acid**

2 Generation Reproductive Toxicity 1000 mg/kg/day **NOEL** No effects at maximum dose Rat Oral Embryo / Fetal Development Oral 3200 mg/kg/day NOAEL Not Teratogenic, Fetotoxicity, Maternal Toxicity

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

### **Ceftiofur Crystalline Free Acid**

In Vitro Bacterial Mutagenicity (Ames) Salmonella, E. coli Negative Unscheduled DNA Synthesis Rat Hepatocyte Negative In Vitro Mammalian Cell Mutagenicity Chinese Hamster Ovary (CHO) cells

Negative

In Vivo Micronucleus Rat Negative

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

# 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

No data available **Toxicity:** 

Persistence and Degradability: No data available

**Bio-accumulative Potential:** No data available

No data available Mobility in Soil:

Material Name: Ceftiofur Crystalline Free Acid Sterile Page 7 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

## 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.

## 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:

Class D, Division 2, Subdivision A Class D, Division 2, Subdivision B



Caprylic/Capric triglyceride

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

**Cottonseed Oil** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

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

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

232-280-7

**Ceftiofur Crystalline Free Acid** 

Material Name: Ceftiofur Crystalline Free Acid Sterile Page 8 of 8

Suspension

Revision date: 06-Jan-2014 Version: 3.0

# 15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting

California Proposition 65

Standard for the Uniform Scheduling
for Drugs and Poisons:

Not Listed

Not Listed

Schedule 4

EU EINECS/ELINCS List Not Listed

## **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.

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**