This SDS packet was issued with item: 078393210

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078393814



Revision date: 06-Jan-2014

Version: 3.0

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

Product Identifier

Material Name: Ceftiofur Sodium Sterile Powder

Trade Name: Chemical Family: Naxcel; Excenel 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.

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 light tan powder Classification of the Substance or Mixture GHS - Classification

> Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Eye Irritation: Category 2A Respiratory Sensitization: Category 1 Skin Sensitization: Category 1

US OSHA Specific - Classification

Physical Hazard: Combustible Dust **EU Classification:**

EU Indication of danger: Harmful Irritant

EU Symbol: EU Risk Phrases:

R36 - Irritating to eyes. R38 - Irritating to skin. R42/43 - May cause sensitization by inhalation and skin contact.

Label Elements

Signal Word:

Danger

Xn Xi

Material Name: Ceftiofur Sodium Sterile Powder Revision date: 06-Jan-2014

	2. HAZARDS IDENTIFICATION
Hazard Statements:	H315 - Causes skin irritation H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H317 - May cause an allergic skin reaction May form combustible dust concentrations in air
Precautionary Statements:	 P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P264 - Wash hands thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 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 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention 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 P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards Short Term: May cause eye irritation; May cause 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. Clinical use of this drug has caused effects on blood forming organs, blood cell changes. **Australian Hazard Classification** Hazardous Substance. Non-Dangerous Goods. (NOHSC): This document has been prepared in accordance with standards for workplace safety, which Note: 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

NAXCEL

Material Name: Ceftiofur Sodium Sterile Powder Revision date: 06-Jan-2014

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Ceftiofur Sodium	104010-37-9	Not Listed	Xn; R42/43	Resp Sens. (H334) Skin Sens. (H317)	98
Sodium hydroxide	1310-73-2	215-185-5	C; R35	Skin Corr. 1A (H314)	1

Ingredient	CAS Number EU EINECS/ELINCS		EU Classification	GHS Classification	%
		List			
Potassium phosphate	7778-77-0	231-913-4	Not Listed	Not Listed	*

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

5. FIRE-FIGHTING MEASURES		
Indication of the Immediate Medica Notes to Physician:	I Attention and Special Treatment Needed None	
Most Important Symptoms and Effects, Both Acute and DelayedSymptoms and Effects of Exposure:For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.Medical Conditions Aggravated by Exposure:Breathing dust may worsen asthma symptoms.		
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.	
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.	
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.	
Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.	

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

 Special Hazards Arising from the Substance or Mixture Hazardous Combustion Products:
 Formation of toxic gases is possible during heating or fire.

 Fire / Explosion Hazards:
 Fine particles (such as dust and mists) may fuel fires/explosions. Dust can form an explosive mixture in air.

 Advice for Fire-Fighters
 Extinguish fires with CO2, extinguishing powder, foam, or water.

 Material Name: Ceftiofur Sodium Sterile Powder Revision date: 06-Jan-2014

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.

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. Avoid dust formation.

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:	Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.
Additional Consideration for Large Spills:	Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding procedures. 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

Eliminate possible ignition sources (e.g., heat, sparks, flame, impact, friction, electricity), and follow appropriate grounding and bonding procedures. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Minimize dust generation and accumulation. Use with adequate ventilation. Wash thoroughly after handling. Releases to the environment should be avoided. Use appropriate personal protective equipment.

Conditions for Safe Storage, Including any Incompatibilities Storage Conditions: Store at room temperatu

Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

. . .

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.

So

Zoetis OEL TWA 8-hr	200µg/m³, Sensitizer	
odium hydroxide		
ACGIH Ceiling Threshold Limit:	2 mg/m ³	
Australia PEAK	2 mg/m ³	
Austria OEL - MAKs	2 mg/m ³	
Bulgaria OEL - TWA	2.0 mg/m ³	
Czech Republic OEL - TWA	1 mg/m ³	
Estonia OEL - TWA	1 mg/m ³	
France OEL - TWA	2 mg/m ³	
Greece OEL - TWA	2 mg/m ³	
Hungary OEL - TWA	2 mg/m ³	
Japan - OELs - Ceilings	2 mg/m ³	

8. EXPOS	URE CONTROLS / PERSONAL PROTECTION
Latvia OEL - TWA	0.5 mg/m ³
OSHA - Final PELS - TWAs:	2 mg/m ³
Poland OEL - TWA	0.5 mg/m ³
Slovakia OEL - TWA	2 mg/m ³
Slovenia OEL - TWA	2 mg/m ³
Sweden OEL - TWAs	1 mg/m ³
Switzerland OEL -TWAs	2 mg/m ³
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: Odor: Molecular Formula:	Powder No data available. Mixture		Color: Odor Threshold: Molecular Weight:	Off-white to tan No data available. Mixture
Solvent Solubility: Water solubility: Water Solubility: pH: Melting/Freezing Point (°C): Boiling Point (°C): Partition Coefficient: (Method, pH, E No data available Decomposition Temperature (°C): Evaporation Rate (Gram/s): Vapor Pressure (kPa): Vapor Density (g/ml): Relative Density: Viscosity:	Slightly soluble: Methanol, >400 mg/ml No data available No data available. No data available No data available. indpoint, Value) No data available. No data available No data available No data available No data available No data available No data available	Tetrahydrofu	ran	
Flammablity: Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): Polymerization:		No data avai No data avai No data avai No data avai No data avai Will not occu	lable lable lable lable	

Partition Coefficient (n-octanol/water - cLog P):

0.3 (pH 5)

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions	No data available Stable under normal conditions of use.	
Oxidizing Properties:	No data available	
Conditions to Avoid:	Fine particles (such as dust and mists) may fuel fires/explosions. Keep away from heat, spark, flames and all other sources of ignition.	
Incompatible Materials:	As a precautionary measure, keep away from strong oxidizers	
Hazardous Decomposition Products:	NO dala avallable	
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 active ingredient(s).

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

Ceftiofur Sodium

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

Sodium hydroxide

Mouse IP LD50 40 mg/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 Sodium

Eye Irritation Rabbit Minimal Skin Irritation Rabbit Minimal

Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

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

Ceftiofur Sodium

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 Sodium

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Material Name: Ceftiofur Sodium Sterile Powder

Revision date: 06-Jan-2014

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 Sodium

Bacterial Mutagenicity (Ames)	Salm	onella , E. coli	Negative	
Unscheduled DNA Synthesis	Rat	Negative		
Mammalian Cell Mutagenicity	Chine	ese Hamster Ova	ry (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
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

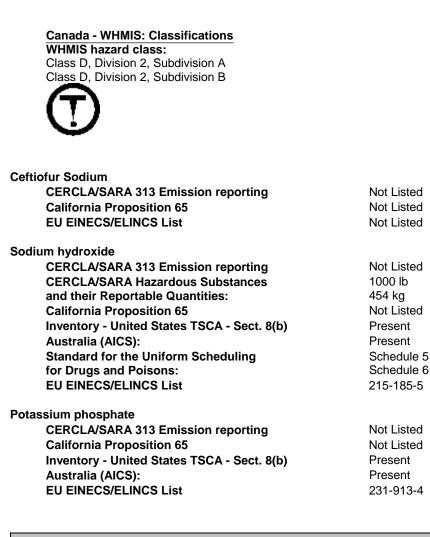
The following refers to all modes of transportation unless specified below.

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

Material Name: Ceftiofur Sodium Sterile Powder Revision date: 06-Jan-2014 Page 8 of 9 Version: 3.0

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

H314 - Causes severe skin burns and eye damage

R35 - Causes severe burns. 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.

NAXCEL

Page 9 of 9 Version: 3.0

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 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. 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