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IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Animal Health Pfizer Inc 235 East 42nd Street

New York, NY 10017

Poison Control Center Phone: 1-866-531-8896 Technical Services Phone: 1-800-366-5288

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: pfizer-MSDS@pfizer.com Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 61

Ramsgate Road

Pfizer Ltd

+00 44 (0)1304 616161

Emergency telephone number:

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

Material Name: Ceftiofur Sodium Sterile Powder

Trade Name: Naxcel; Excenel

Chemical Family: Mixture

Intended Use: Veterinary product used as antibiotic agent

2. HAZARDS IDENTIFICATION

Appearance: Off white to light tan powder

Signal Word: DANGER

Statement of Hazard: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

May cause allergic skin reaction.

Additional Hazard Information:

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.

EU Indication of danger: Harmful

EU Hazard Symbols:

Xn

EU Risk Phrases:

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

Australian Hazard Classification Hazardous Substance. Non-Dangerous Goods.

(NOHSC):

NAVOEL

NAXCEL

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2. HAZARDS IDENTIFICATION

Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates 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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%	
Ceftiofur Sodium	104010-37-9	Not Listed	Xn; R42/43	98	
Sodium hydroxide	1310-73-2	215-185-5	C;R35	*	

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Potassium phosphate	7778-77-0	231-913-4	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 mentioned in this Section, see Section 16

4. 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.

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: Use carbon dioxide, dry chemical, or water spray.

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

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

contained breathing apparatus.

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

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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 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.

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

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

General Handling: Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes,

skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled

with dust collectors, HEPA filtration systems or other equivalent controls.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Ceftiofur Sodium

Pfizer OEL TWA-8 Hr: 200µg/m3, Sensitizer

Sodium hydroxide

ACGIH Ceiling Threshold Limit: 2 mg/m³ 2 mg/m³ **Australia PEAK Austria OEL - MAKs** Listed **Bulgaria OEL - TWA** Listed Czech Republic OEL - TWA Listed **Estonia OEL - TWA** Listed France OEL - TWA Listed Listed **Greece OEL - TWA** Listed **Hungary OEL - TWA** 2 ma/m³ Japan - OELs - Ceilings Listed Latvia OEL - TWA **OSHA - Final PELS - TWAs:** 2 mg/m³ Poland OEL - TWA Listed Slovenia OEL - TWA Listed **Sweden OEL - TWAs** Listed

Analytical method available for Ceftiofur. Contact Pfizer Inc for further information. **Analytical Method:**

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.

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

legislation.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Color: Off-white to tan

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: Slightly soluble: Methanol, Tetrahydrofuran

Water solubility: >400 mg/ml

Polymerization: Will not occur

Partition Coefficient 0.3 (pH 5)

(n-octanol/water - cLog P):

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

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

11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the active

ingredient(s).

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

Ceftiofur Sodium

Rat Oral LD 50 >7760 mg/kg

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

Rat Inhalation LC 50 >8.3 mg/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

NAXCEL

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11. TOXICOLOGICAL INFORMATION

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

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) Salmonella , E. coli Negative

Unscheduled DNA Synthesis Rat Negative

Mammalian Cell Mutagenicity Chinese Hamster Ovary (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.

Partition Coefficient 0.3 (pH 5)

(n-octanol/water - cLog P):

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.

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15. REGULATORY INFORMATION

EU Symbol: Xn EU Indication of danger: Harmful

EU Risk Phrases:

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

EU Safety Phrases:

S22 - Do not breathe dust. S24 - Avoid contact with skin. S37 - Wear suitable gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label

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where possible).

OSHA Label:

DANGER

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

May cause allergic skin reaction.

Canada - WHMIS: Classifications

WHMIS hazard class:D2a very toxic materials D2b toxic materials



Sodium hydroxide

CERCLA/SARA Hazardous Substances 1000 lb final RQ and their Reportable Quantities: 454 kg final RQ

Inventory - United States TSCA - Sect. 8(b)ListedAustralia (AICS):ListedStandard for the Uniform SchedulingSchedule 5for Drugs and Poisons:Schedule 6EU EINECS/ELINCS List215-185-5

Potassium phosphate

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

Australia (AICS):

EU EINECS/ELINCS List

231-913-4

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R35 - Causes severe burns.

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

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Data Sources: Publicly available toxicity information. Safety data sheets for individual ingredients. Pfizer

proprietary drug development information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 7 - Handling and Storage. Updated

Section 8 - Exposure Controls / Personal Protection. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 6 - Accidental Release Measures. Updated Section 10 - Stability and Reactivity. Updated Section

15 - Regulatory Information.

Prepared by: Product Stewardship Hazard Communications

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
