# This SDS packet was issued with item: 078911968

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078911969



Revision date: 09-Sep-2014

Version: 2.5

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

**Product Identifier** 

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ)

Trade Name: Synonyms: EXCENEL® EXCENEL® RTU EZ Sterile Suspension; EXCENEL® RTU EZ; EXCENEL® Flow; EXCENEL® Fluid suspension; EXCENEL® Fluid; EXCENEL® Evo

**Chemical Family:** 

Cephalosporin; beta lactam

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

	of the Substance or Mi Classification	Opaque suspension xture
	Respiratory Sensitization Skin Sensitization: Cate	0,
EU Clas	ssification:	
	EU Indication of danger	: Harmful
	EU Symbol: EU Risk Phrases:	Xn
		R42/43 - May cause sensitization by inhalation and skin contact.
Label Elemen	ts	
Signal V	Nord:	Danger

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

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

Version: 2.5

Precautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P285 - In case of inadequate ventilation wear respiratory protection
	P272 - Contaminated work clothing should not be allowed out of the workplace
	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 regulation



Other Hazards Short Term: Known Clinical Effects:

Australian Hazard Classification (NOHSC):

Note:

May cause eye irritation, skin irritation (based on components) . 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)	6.11

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Miglyol 812	123465-33-8	Not Listed	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	Not Listed	*

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014 Page 3 of 8

Version: 2.5

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. Delayed effects may occur. For information on potential delayed effects, see Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. 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 Identification and/or Section 11 - Toxicological Information. Exposure: **Medical Conditions** Individuals with a history of hypersensitivity to this material or other materials in its chemical Aggravated by Exposure: class, individuals with other allergic conditions or diseases (asthma, eczema, etc.).

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:
 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.

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

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014 Page 4 of 8

Version: 2.5

Additional Consideration for<br/>Large Spills:Non-essential personnel should be evacuated from affected area. Report emergency<br/>situations immediately. Clean up operations should only be undertaken by trained personnel.

# 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Avoid accidental injection. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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.

### Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Storage Temperature: Incompatible Materials: Specific end use(s): Store at controlled room temperature. Protect from freezing. 20-25°C No data available Veterinary antibiotic agent

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

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

Ceftiofur Hydrochloride Zoetis OEL TWA 8-hr	200 µg/m³, Sensitizer
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. 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:

Solvent Solubility:No data availableWater Solubility:No data availablepH:No data availableMelting/Freezing Point (°C):No data availableBoiling Point (°C):No data availablePartition Coefficient: (Method, pH, Endpoint, Value)No data availableNo data availableNo data available

Suspension

Mixture

No data available.

Color: Odor Threshold: Molecular Weight: Opaque No data available. Mixture

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

9. PHYSICAL AND CHEMICAL PROPERTIES				
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			
Viscosity:	No data available			
Flammablity:				
Autoignition Temperature (So	olid) (°C):	No data available		
Flammability (Solids):		No data available		
Flash Point (Liquid) (°C):		No data available		
Flash Folint (Liquid) ( C).				
Upper Explosive Limits (Liqu	id) (% by Vol.):	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 Do not freeze No data available No data available

# **11. TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects General Information:

Toxicological properties of the formulation have not been fully investigated. The following information is available for 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

### Polysorbate 80

RatIntravenousLD 501790 mg/kgMouseOralLD 5025g/kgAcute Toxicity Comments:A green

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

RTU EZ

Page 5 of 8

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

# **11. TOXICOLOGICAL INFORMATION**

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

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	se 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 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.

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

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

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



Ceftiofur Hydrochloride	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Miglyol 812	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Polysorbate 80	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Water for Injection	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

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Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

# **15. REGULATORY INFORMATION**

Present

231-791-2

REACH - Annex IV - Exemptions from the obligations of Register: EU EINECS/ELINCS List

# **16. OTHER INFORMATION**

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

Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Xn - Harmful

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

Data Sources:	The data contained in this SDS 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 7 - Handling and Storage.
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

Version: 2.5

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Revision date: 09-Sep-2014

Version: 2.5

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

**Product Identifier** 

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ)

Trade Name: Synonyms: EXCENEL® EXCENEL® RTU EZ Sterile Suspension; EXCENEL® RTU EZ; EXCENEL® Flow; EXCENEL® Fluid suspension; EXCENEL® Fluid; EXCENEL® Evo

**Chemical Family:** 

Cephalosporin; beta lactam

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: Classification of the Substance or GHS - Classification	Opaque suspension Mixture
Respiratory Sensitiza Skin Sensitization: Ca	<b>e</b> ,
EU Classification: EU Indication of dang	ger: Harmful
EU Symbol: EU Risk Phrases:	Xn 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

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

Version: 2.5

Precautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
-	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P285 - In case of inadequate ventilation wear respiratory protection
	P272 - Contaminated work clothing should not be allowed out of the workplace
	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 regulation



Other Hazards Short Term: Known Clinical Effects:

Australian Hazard Classification (NOHSC):

Note:

May cause eye irritation, skin irritation (based on components) . 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)	6.11
				(H334) Skin Sens. 1 (H317)	

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Miglyol 812	123465-33-8	Not Listed	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	Not Listed	*
Water for Injection	7732-18-5	231-791-2	Not Listed	Not Listed	*

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014 Page 3 of 8

Version: 2.5

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. Delayed effects may occur. For information on potential delayed effects, see Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. 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 Identification and/or Section 11 - Toxicological Information. Exposure: **Medical Conditions** Individuals with a history of hypersensitivity to this material or other materials in its chemical Aggravated by Exposure: class, individuals with other allergic conditions or diseases (asthma, eczema, etc.).

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:
 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.

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

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014 Page 4 of 8

Version: 2.5

Additional Consideration for<br/>Large Spills:Non-essential personnel should be evacuated from affected area. Report emergency<br/>situations immediately. Clean up operations should only be undertaken by trained personnel.

# 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Avoid accidental injection. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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.

### Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Storage Temperature: Incompatible Materials: Specific end use(s): Store at controlled room temperature. Protect from freezing. 20-25°C No data available Veterinary antibiotic agent

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

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

Ceftiofur Hydrochloride Zoetis OEL TWA 8-hr	200 µg/m³, Sensitizer
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. 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:	

Solvent Solubility:No data availableWater Solubility:No data availablepH:No data availableMelting/Freezing Point (°C):No data availableBoiling Point (°C):No data availablePartition Coefficient: (Method, pH, Endpoint, Value)No data availableNo data availableNo data available

Suspension

Mixture

No data available.

Color: Odor Threshold: Molecular Weight: Opaque No data available. Mixture

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

9. PHYSICAL AND CHEMICAL PROPERTIES				
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			
Viscosity:	No data available			
Flammablity:				
Autoignition Temperature (So	olid) (°C):	No data available		
Flammability (Solids):	,,,,,	No data available		
Flash Point (Liquid) (°C):		No data available		
Upper Explosive Limits (Liquid) (% by Vol.):		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 Do not freeze No data available No data available

# **11. TOXICOLOGICAL INFORMATION**

#### Information on Toxicological Effects General Information:

Toxicological properties of the formulation have not been fully investigated. The following information is available for 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

### Polysorbate 80

RatIntravenousLD 501790 mg/kgMouseOralLD 5025g/kgAcute Toxicity Comments:A green

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

RTU EZ

Page 5 of 8

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

# **11. TOXICOLOGICAL INFORMATION**

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

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	se 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 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.

Page 6 of 8

Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

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

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.



Ceftiofur Hydrochloride	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Miglyol 812	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Polysorbate 80	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	Not Listed
Water for Injection	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present

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Material Name: Ceftiofur Hydrochloride Sterile Suspension (EZ) Revision date: 09-Sep-2014

# 15. REGULATORY INFORMATIONas from thePresent

231-791-2

REACH - Annex IV - Exemptions from the obligations of Register: EU EINECS/ELINCS List

# **16. OTHER INFORMATION**

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

Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Xn - Harmful

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

Data Sources:	The data contained in this SDS 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 7 - Handling and Storage.
Prepared by:	Toxicology and Hazard Communication

Zoetis Global Risk Management

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End of Safety Data Sheet

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