SAFETY DATA SHEET



1. Identification

Product identifier	Excede Sterile Suspension
Other means of identification	
Synonyms	Excede * Naxcel * Ceftiofur Crystalline Free Acid Sterile Suspension * Excede 100 * Excede 200
Recommended use	Veterinary antibiotic agent
Recommended restrictions	Not for human use
Manufacturer/Importer/Supplier/	Distributor information
Company Name (US)	Zoetis Inc.
	10 Sylvan Way
	Parsippany, New Jersey 07054 (USA)
Rocky Mountain Poison and Drug Center	1-866-531-8896
Product Support/Technical Services	1-888-963-8471
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300
	International CHEMTREC (24 hours): +1-703-527-3887
Company Name (EU)	Zoetis Belgium S.A.
	Rue Laid Burniat 1
	1348 Louvain-la-Neuve
	Belgium
Telephone:	+32 10 808080
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, respiratory Category 1	
	Sensitization, skin	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Precautionary statement	
Prevention	Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. In case of inadequate ventilation wear respiratory protection.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Direct contact with eyes may cause temporary irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause effects similar to those generally seen in clinical use of antibiotics including gastrointestinal irritation, vomiting, transient diarrhea, nausea, and abdominal pain. 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. Effects on blood and blood-forming organs have also occurred.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ceftiofur Crystalline Free Acid		80370-57-6	20
Non-hazardous ingredients		Proprietary	*
Composition comments	* In accordance with 29 CFR 1910.1200, the been withheld as a trade secret.	exact percentage composition c	f this mixture has
4. First-aid measures			
Inhalation	Move to fresh air. If experiencing respiratory a doctor/physician. If breathing is difficult, trained		
Skin contact	Remove contaminated clothing immediately a attention if irritation develops and persists. In medical attention and take along these instru-	case of eczema or other skin di	sorders: Seek
Eye contact	Immediately flush with plenty of water for at le Continue rinsing. Get medical attention if irrita		emove contact lenses
Ingestion	Rinse mouth. Call a physician or poison contrinstruction of medical personnel. Never give a		
Most important symptoms/effects, acute and delayed	Difficulty in breathing. May cause an allergic s eyes may cause temporary irritation. Exposed and discomfort. Prolonged skin contact may o pain.	d individuals may experience ey	e tearing, redness,
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	at symptomatically. Keep victim	under observation.
General information	IF exposed or concerned: Get medical advice of the material(s) involved, and take precaution clothing before reuse.		•
5. Fire-fighting measures			

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** Move containers from fire area if you can do so without risk. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid release to the environment. Prevent product from entering drains. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
	Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Observe good industrial hygiene practices. Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid accidental injection. Avoid release to the environment. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Protect from sunlight. Keep away from heat, sparks and open flame. Store in original tightly closed container. @ 15 - 25°C (59 - 77°F). Do not allow material to freeze. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis Components	Туре	Value
Ceftiofur Crystalline Free Acid (CAS 80370-57-6)	TWA	200 µg/m³
Biological limit values	No biological exposure limits noted for	or the ingredient(s).
Exposure guidelines	OEL Additional Information: Sensitized	er
Control banding approach	Not available.	
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Individual protection measures	s, such as personal protective equipm	nent
Eye/face protection	If contact is likely, safety glasses with	n side shields are recommended.
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If engineering controls do not maintain airborne concentrations below recommended exposure limit (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	and before eating, drinking, and/or si	ene measures, such as washing after handling the material moking. Routinely wash work clothing and protective Contaminated work clothing should not be allowed out of the

9. Physical and chemical properties

Appearance	Suspension
Physical state	Liquid.
Form	Liquid.
Color	Opaque.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure			
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Ceftiofur Crystalline Free Acid	Species: Rabbit Severity: Minimal		

Eye contact

Direct contact with eyes may cause temporary irritation.

Ceftiofur Crystalline Free Acid

Species: Rabbit Severity: Minimal Ingestion

May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged skin contact may cause temporary irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Species 80370-57-6) Rat Rat Rat	Test Resu > 8.3 mg/l, > 7760 mg 927 mg/kg	, 4 Hours
Rat	> 7760 mg	ŋ/kg
Rat	> 7760 mg	ŋ/kg
Rat	> 7760 mg	ŋ/kg
Rat	> 7760 mg	ŋ/kg
	-	
	-	
Rat	927 mg/kg	[Sub-tenon injection (eye)]
Rat	927 mg/kg	[Sub-tenon injection (eye)]
Rat		g/kg/day, 30 days [Target Gastrointestinal System]
Dog	300 mg/kg Blood form	ı/day, 51 days [Target organ(s): ning organs]
Dog	30 mg/kg/o Blood form	day, 90 days [Target organ(s): ning organs]
Rat	30 mg/kg/o Gastrointe	day, 90 days [Target organ(s): stinal system]
Rat	> 5000 mg	ı/ka
	-	, ng
ee Acid	Species: Rabbit Severity: Minimal	
Direct contact with eyes may cause temporary irritation.		
ee Acid	Species: Rabbit Severity: Minimal	
May cause allergy or asthma	symptoms or breathing difficulties if	inhaled.
May cause an allergic skin reaction.		
No data available to indicate product or any components present at greater than 0.1% are		at greater than 0.1% are
Mutagenicity Ceftiofur Crystalline Free Acid		mes)
	Dog Rat Rat Prolonged skin contact may ca ee Acid Direct contact with eyes may c ee Acid May cause allergy or asthma s May cause an allergic skin rea No data available to indicate p mutagenic or genotoxic.	Dog 300 mg/kg Dog 30 mg/kg/d Dog 30 mg/kg/d Blood form Blood form Rat 30 mg/kg/d Rat > 5000 mg Prolonged skin contact may cause temporary irritation. ee Acid Species: Rabbit Severity: Minimal Direct contact with eyes may cause temporary irritation. ee Acid Species: Rabbit Severity: Minimal Direct contact with eyes may cause temporary irritation. ee Acid Species: Rabbit Severity: Minimal Direct contact with eyes may cause temporary irritation. ee Acid Species: Rabbit Severity: Minimal May cause allergy or asthma symptoms or breathing difficulties if May cause an allergic skin reaction. No data available to indicate product or any components present mutagenic or genotoxic.

In Vitro Mammalian Cell Mutagenicity Result: Negative Species: Chinese Hamster Ovary (CHO) cells

In Vivo Micronucleus Result: Negative Species: Rat

Unscheduled DNA Synthesis Result: Negative Species: Rat Hepatocyte

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed. Reproductive toxicity

This product is not expected to cause reproductive or developmental effects. Based on available data, the classification criteria are not met.

Result: NOAEL Species: Rat Organ: Oral

Developmental effects

Ceftiofur Crystalline Free Acid

Reproductivity

Ceftiofur Crystalline Free Acid

1000 mg/kg/day 2 Generation Reproductive Toxicity, No effects at maximum dose Result: NOEL Species: Rat Organ: Oral

3200 mg/kg/day Embryo / Fetal Development, Not Teratogenic, Fetotoxicity, Maternal Toxicity

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Avoid release to the environment.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	See below	
Partition coefficient n-octanol / water (log Kow) Ceftiofur Crystalline Free Acid 0.1		
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Avoid release to the environment. 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	None known.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Respiratory or skin sensitization categories

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

 Not regulated.

 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

 Not regulated.

 Safe Drinking Water Act (SDWA)
 Not regulated.

 US state regulations
 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Revision date Version #	04-05-2017 05-04-2022 02
List of abbreviations Disclaimer	AICIS: Australian Inventory of Industrial Chemicals. 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. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.