

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078912795

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

078695509

# SAFETY DATA SHEET



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Version: 2.0

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

### Product Identifier

**Material Name:** Spectramast DC

**Trade Name:** SPECTRAMAST  
**Synonyms:** Ceftiofur Hydrochloride DC Intramammary Suspension  
**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.  
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

Zoetis Belgium S.A.  
Mercuriusstraat 20  
1930 Zaventem  
Belgium

**Emergency telephone number:**  
CHEMTREC (24 hours): 1-800-424-9300  
**Contact E-Mail:** VMIPRecords@zoetis.com

**Emergency telephone number:**  
International CHEMTREC (24 hours): +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Appearance:** Opaque buff to yellow suspension

### Classification of the Substance or Mixture

#### GHS - Classification

Respiratory Sensitization: Category 1  
Skin Sensitization: Category 1

#### EU Classification:

EU Indication of danger: Harmful  
Irritant

EU Symbol: Xn

EU Risk Phrases:  
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

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**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 cause minimal eye irritation (based on animal data). May cause mild skin irritation (based on animal data). Not acutely toxic (based on animal data). Ingestion may result in mild gastrointestinal irritation with nausea, vomiting, or diarrhea. 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. Effects on blood and blood-forming organs have also occurred.

**Australian Hazard Classification (NOHSC):**

Hazardous Substance. Non-Dangerous Goods.

**Note:** 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)<br>Skin Sens. 1 (H317) | 5.3 |

| Ingredient                               | CAS Number | EU EINECS/ELINCS List | EU Classification | GHS Classification | % |
|--|------------|-----------------------|-------------------|--------------------|---|
| Glycerides, vegetable-oil, mono- and di- | 97488-91-0 | 307-030-6             | Not Listed        | Not Listed         | * |
| Cottonseed Oil                           | 8001-29-4  | 232-280-7             | Not Listed        | Not Listed         | * |

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|                      |            |                        |            |            |   |
|----------------------|------------|------------------------|------------|------------|---|
| Microcrystalline wax | 63231-60-7 | 264-038-1<br>429-350-6 | 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

**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. This material may not be completely removed by conventional laundering. Consult professional laundry service. Do not home launder.

**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 Exposure:** No data available

**Medical Conditions Aggravated by Exposure:** None known

#### 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 Products:** Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides and other sulfur-containing compounds.

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

#### Advice for Fire-Fighters

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Dike and collect water used to fight fire.

### 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

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|   |  |
|---|--|
| <b>Measures for Cleaning / Collecting:</b>        | Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.  |
| <b>Additional Consideration for Large Spills:</b> | 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

Use appropriate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor or mist. Keep away from heat, sparks, and flame. When handling, use proper personal protective equipment as specified in Section 8.

#### Conditions for Safe Storage, Including any Incompatibilities

|                                |   |
|--------------------------------|---|
| <b>Storage Conditions:</b>     | Store in a cool, dry, well-ventilated area. Protect from light.                                   |
| <b>Storage Temperature:</b>    | Store as directed by product packaging.   |
| <b>Incompatible Materials:</b> | Incompatible with bases. As a precautionary measure, keep away from strong oxidizers Heavy metals |
| <b>Specific end use(s):</b>    | No data available   |

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control Parameters

Ceftiofur Hydrochloride  
Zoetis OEL TWA 8-hr

200µg/m<sup>3</sup>, Sensitizer

#### Exposure Controls

|                                       |  |
|---------------------------------------|--|
| <b>Engineering Controls:</b>          | 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.      |
| <b>Personal Protective Equipment:</b> | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).  |
| <b>Hands:</b>                         | Wear two layers of disposable gloves.  |
| <b>Eyes:</b>                          | Safety glasses or goggles  |
| <b>Skin:</b>                          | Protective coveralls should be worn. The sleeves should either be taped or have gloves worn over them to prevent material from contacting the skin.                        |
| <b>Respiratory protection:</b>        | 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

|   |                    |                          |                       |
|---|--------------------|--------------------------|-----------------------|
| <b>Physical State:</b>                                      | Suspension         | <b>Color:</b>            | Buff to yellow opaque |
| <b>Odor:</b>  | No data available. | <b>Odor Threshold:</b>   | No data available.    |
| <b>Molecular Formula:</b>                                   | Mixture            | <b>Molecular Weight:</b> | Mixture               |
| <b>Solvent Solubility:</b>                                  | No data available  |                          |                       |
| <b>Water Solubility:</b>                                    | No data available  |                          |                       |
| <b>pH:</b>  | No data available. |                          |                       |
| <b>Melting/Freezing Point (°C):</b>                         | No data available  |                          |                       |
| <b>Boiling Point (°C):</b>                                  | No data available. |                          |                       |
| <b>Partition Coefficient: (Method, pH, Endpoint, Value)</b> |                    |                          |                       |
| No data available   |                    |                          |                       |
| <b>Decomposition Temperature (°C):</b>                      | No data available. |                          |                       |
| <b>Evaporation Rate (Gram/s):</b>                           | No data available  |                          |                       |

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Vapor Pressure (kPa): No data available  
Vapor Density (g/ml): No data available  
Relative Density: 0.930 - 0.950  
Viscosity: No data available

### Flammability:

Autoignition Temperature (Solid) (°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  
Lower Explosive Limits (Liquid) (% by Vol.): No data available

Polymerization: Will not occur

## 10. STABILITY AND REACTIVITY

Reactivity: No data available  
Chemical Stability: Stable at normal conditions  
Possibility of Hazardous Reactions  
Oxidizing Properties: No data available  
Conditions to Avoid: Decomposes on exposure to light  
Incompatible Materials: Incompatible with bases. As a precautionary measure, keep away from strong oxidizers Heavy metals  
Hazardous Decomposition Products: No data available

## 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.

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

#### Ceftiofur Hydrochloride

Rat Oral LD 50 >7760 mg/kg  
Rat Sub-tenon injection (eye) LD 50 927mg/kg  
Rat Inhalation LC 50 >8.3mg/L

#### 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 Hydrochloride

Eye Irritation Rabbit Minimal  
Skin Irritation Rabbit Minimal

### 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

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### 11. TOXICOLOGICAL INFORMATION

#### 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) | <i>Salmonella</i> , <i>E. coli</i> | 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:** The environmental characteristics of this material have not been fully evaluated. 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.

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### 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

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS 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 |

##### Glycerides, vegetable-oil, mono- and di-

|                                    |            |
|------------------------------------|------------|
| CERCLA/SARA 313 Emission reporting | Not Listed |
| California Proposition 65          | Not Listed |
| EU EINECS/ELINCS List              | 307-030-6  |

##### Cottonseed Oil

|   |            |
|---|------------|
| 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                       | 232-280-7  |

##### Microcrystalline wax

|   |                        |
|---|------------------------|
| 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                       | 264-038-1<br>429-350-6 |

REACH Authorizations: 2.0

### 16. OTHER INFORMATION

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

Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction

Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

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Xn - Harmful

R42 - May cause sensitization by inhalation.

R43 - May cause sensitization by 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 5 - Fire Fighting Measures. 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**