

# SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## Ceftiofur Formulation

Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
Date of first issue: 15.12.2020

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Ceftiofur Formulation

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
Balıkhisar Mah. Köyiçi Küme Evleri No: 765/A  
Çubuk Yolu 2. Km  
Akyurt / Ankara / TÜRKİYE

Telephone : +90 312 840 53 00

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

National Poison Control Center (UZEM): 114  
Emergency: 1-908-423-6000

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### SECTION 2: Hazards identification


#### 2.1 Classification of the substance or mixture

##### Classification T.R. SEA No 28848 and subsequent amendments

Respiratory sensitisation, Category 1      H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 2.2 Label elements

##### Labelling T.R. SEA No 28848 and subsequent amendments

Hazard pictograms : 

Signal word : Danger

Hazard statements : H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Precautionary statements : **Response:**  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:  
Ceftiofur

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>KKDIK Registration No. | SEA Classification   | Concentration (% w/w) |
|----------------|--|--|-----------------------|
| Ceftiofur      | 103980-44-5  | Resp. Sens. 1;<br>H334<br>STOT RE 2; H373                            | $\geq 1 - < 10$       |
| Benzyl alcohol | 100-51-6<br>202-859-9<br>603-057-00-5                    | Acute Tox. 4;<br>H302<br>Acute Tox. 4;<br>H332<br>Eye Irrit. 2; H319 | $\geq 1 - < 10$       |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.

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|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
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| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

- Get medical attention.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

# SAFETY DATA SHEET

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## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 04.04.2023  |
| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not breathe mist or vapours.  
Do not swallow.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease,

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## Ceftiofur Formulation

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Hygiene measures : should consult their physician regarding working with respiratory irritants or sensitizers.  
Take care to prevent spills, waste and minimize release to the environment.  
: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.  
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Keep tightly closed.  
Store in accordance with the particular national regulations.  
Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                | CAS-No.     | Value type (Form of exposure) | Control parameters             | Basis    |
|---------------------------|-------------|-------------------------------|--------------------------------|----------|
| Ceftiofur                 | 103980-44-5 | TWA                           | 100 mcg/m <sup>3</sup> (OEB 2) | Internal |
| Further information: RSEN |             |                               |                                |          |

#### Derived No Effect Level (DNEL) :

| Substance name | End Use   | Exposure routes | Potential health effects   | Value                 |
|----------------|-----------|-----------------|----------------------------|-----------------------|
| Benzyl alcohol | Workers   | Inhalation      | Long-term systemic effects | 22 mg/m <sup>3</sup>  |
|                | Workers   | Inhalation      | Acute systemic effects     | 110 mg/m <sup>3</sup> |
|                | Workers   | Skin contact    | Long-term systemic effects | 8 mg/kg bw/day        |
|                | Workers   | Skin contact    | Acute systemic effects     | 40 mg/kg bw/day       |
|                | Consumers | Inhalation      | Long-term systemic effects | 5,4 mg/m <sup>3</sup> |
|                | Consumers | Inhalation      | Acute systemic effects     | 27 mg/m <sup>3</sup>  |

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## Ceftiofur Formulation

Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
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|   |           |              | ffects                     |                    |
|---|-----------|--------------|----------------------------|--------------------|
|   | Consumers | Skin contact | Long-term systemic effects | 4 mg/kg bw/day     |
|   | Consumers | Skin contact | Acute systemic effects     | 20 mg/kg bw/day    |
|   | Consumers | Ingestion    | Long-term systemic effects | 4 mg/kg bw/day     |
|   | Consumers | Ingestion    | Acute systemic effects     | 20 mg/kg bw/day    |
| Glycerides, mixed decanoyl and octanoyl | Workers   | Inhalation   | Long-term systemic effects | 177,79 mg/m3       |
|   | Workers   | Skin contact | Long-term systemic effects | 25,21 mg/kg bw/day |
|   | Consumers | Inhalation   | Long-term systemic effects | 43,84 mg/m3        |
|   | Consumers | Skin contact | Long-term systemic effects | 12,61 mg/kg bw/day |
|   | Consumers | Ingestion    | Long-term systemic effects | 12,61 mg/kg bw/day |

### Predicted No Effect Concentration (PNEC) :

| Substance name                          | Environmental Compartment  | Value           |
|---|----------------------------|-----------------|
| Benzyl alcohol                          | Fresh water                | 1 mg/l          |
|   | Marine water               | 0,1 mg/l        |
|   | Intermittent use/release   | 2,3 mg/l        |
|   | Sewage treatment plant     | 39 mg/l         |
|   | Fresh water sediment       | 5,27 mg/kg      |
|   | Marine sediment            | 0,527 mg/kg     |
|   | Soil                       | 0,456 mg/kg     |
| Glycerides, mixed decanoyl and octanoyl | Oral (Secondary Poisoning) | 0,03 mg/kg food |

## 8.2 Exposure controls

### Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Laboratory operations do not require special containment.

### Personal protective equipment

Eye/face protection : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Hand protection  
Material : Chemical-resistant gloves

Skin and body protection : Work uniform or laboratory coat.

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| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

|                        |   |  |
|------------------------|---|--|
| Respiratory protection | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to TS EN 14387 |
| Filter type            | : | Combined particulates and organic vapour type (A-P)  |

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |   |  |
|--|---|--|
| Appearance                                       | : | suspension   |
| Colour   | : | white to off-white, cream                            |
| Odour  | : | No data available                                    |
| Odour Threshold                                  | : | No data available                                    |
| pH   | : | No data available                                    |
| Melting point/freezing point                     | : | No data available                                    |
| Initial boiling point and boiling range          | : | No data available                                    |
| Flash point                                      | : | No data available                                    |
| Evaporation rate                                 | : | No data available                                    |
| Flammability (solid, gas)                        | : | Not applicable                                       |
| Upper explosion limit / Upper flammability limit | : | No data available                                    |
| Lower explosion limit / Lower flammability limit | : | No data available                                    |
| Vapour pressure                                  | : | No data available                                    |
| Relative vapour density                          | : | No data available                                    |
| Relative density                                 | : | No data available                                    |
| Density  | : | 0,850 - 1,050 g/cm <sup>3</sup><br>No data available |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | No data available                                    |
| Partition coefficient: n-octanol/water           | : | Not applicable                                       |
| Auto-ignition temperature                        | : | No data available                                    |
| Decomposition temperature                        | : | No data available                                    |
| Viscosity  |   |  |
| Viscosity, kinematic                             | : | No data available                                    |

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## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 04.04.2023  |
| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

Explosive properties : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Flammability (liquids) : No data available  
Molecular weight : No data available  
Particle size : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method  
Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l

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## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
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| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

### Components:

#### **Ceftiofur:**

Acute oral toxicity : LD50 (Rat): > 7.760 mg/kg

#### **Benzyl alcohol:**

Acute oral toxicity : LD50 (Rat): 1.620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4,178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

### **Skin corrosion/irritation**

Not classified based on available information.

### Components:

#### **Benzyl alcohol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Not classified based on available information.

### Components:

#### **Benzyl alcohol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Components:

#### **Ceftiofur:**

Exposure routes : Inhalation  
Result : Sensitiser  
Remarks : May cause sensitisation by inhalation.

# SAFETY DATA SHEET

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## Ceftiofur Formulation

Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
Date of first issue: 15.12.2020

---

### **Benzyl alcohol:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Ceftiofur:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat  
Application Route: Intraperitoneal  
Result: negative

#### **Benzyl alcohol:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Benzyl alcohol:**

Species : Mouse  
Application Route : Ingestion  
Exposure time : 103 weeks  
Method : OECD Test Guideline 451  
Result : negative

# SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## Ceftiofur Formulation

Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
Date of first issue: 15.12.2020

---

### Reproductive toxicity

Not classified based on available information.

#### Components:

##### **Ceftiofur:**

Effects on fertility : Test Type: Fertility  
Application Route: Oral  
Fertility: NOAEL: 1.000 mg/kg body weight  
Result: No adverse effects

Effects on foetal development : Test Type: Development  
Application Route: Oral  
Developmental Toxicity: NOAEL: 1.000 mg/kg body weight  
Result: No adverse effects

##### **Benzyl alcohol:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **Ceftiofur:**

Exposure routes : Oral  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### **Ceftiofur:**

Species : Rat  
NOAEL : 30 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Target Organs : Gastrointestinal tract  
Symptoms : Gastrointestinal disturbance

# SAFETY DATA SHEET

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## Ceftiofur Formulation

Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
Date of first issue: 15.12.2020

---

Remarks : May cause damage to organs.

Species : Dog  
NOAEL : 30 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Target Organs : Blood, Central nervous system  
Remarks : May cause damage to organs.

### **Benzyl alcohol:**

Species : Rat  
NOAEL : 1,072 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 28 Days  
Method : OECD Test Guideline 412

### **Aspiration toxicity**

Not classified based on available information.

### **Experience with human exposure**

#### **Components:**

#### **Ceftiofur:**

General Information : Repeated contact may cause allergic reactions in very susceptible persons.  
Inhalation : Symptoms: Nausea, Vomiting, Abdominal pain, vaginitis, Headache, Dizziness, dry mouth, Fatigue, constipation, colitis

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

#### **Benzyl alcohol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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# SAFETY DATA SHEET

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## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
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| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

---

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 12.2 Persistence and degradability

#### Components:

##### **Benzyl alcohol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 - 96 %  
Exposure time: 14 d

### 12.3 Bioaccumulative potential

#### Components:

##### **Benzyl alcohol:**

Partition coefficient: n-octanol/water : log Pow: 1,05

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good

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Version 5.4      Revision Date: 30.09.2023      SDS Number: 7674007-00009      Date of last issue: 04.04.2023  
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---

**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.2 UN proper shipping name

**ADN** : Not regulated as a dangerous good  
**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**ADN** : Not regulated as a dangerous good  
**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**ADN** : Not regulated as a dangerous good  
**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17) : Conditions of restriction for the following entries should be considered: Number on list 3

Substance(s) or mixture(s) are listed

# SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 04.04.2023  |
| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

Regulation on Persistent Organic Pollutants (Number : Not applicable  
30595 and subsequent amendments published)  
Regulation on prevention of major industrial accidents. Reg number 30702  
Not applicable

### Other regulations:

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published.

### The components of this product are reported in the following inventories:

DSL : not determined  
AICS : not determined  
IECSC : not determined

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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### Full text of H-Statements

H302 : Harmful if swallowed.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.

**The Turkish SDS has been prepared according to the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures No. 29204.**

# SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## Ceftiofur Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 04.04.2023  |
| 5.4     | 30.09.2023     | 7674007-00009 | Date of first issue: 15.12.2020 |

### Full text of other abbreviations

|             |   |  |
|-------------|---|--|
| Acute Tox.  | : | Acute toxicity                                     |
| Eye Irrit.  | : | Eye irritation                                     |
| Resp. Sens. | : | Respiratory sensitisation                          |
| STOT RE     | : | Specific target organ toxicity - repeated exposure |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Resp. Sens. 1 H334

### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only



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to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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