

# SAFETY DATA SHEETS

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

078572705

N/A

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

**1 Identification of the substance/mixture and of the company/undertaking**

- **Product Identifier**
- **Product Name:** Ceftiofur
- **Catalog Number:** 291255
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BD Diagnostic Systems  
7 Loveton Circle  
Sparks, MD 21152  
Telephone.: (410) 771 - 0100 or (800) 638 – 8663
- **Information Department:** Technical Service
- **Emergency telephone number:**  
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

**2 Composition/information on ingredients**

- **Chemical characterization:** Substances
- **CAS No. Description:**

**3 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.

Void

- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals  
The substance is not subject to classification according to the sources of literature known to us.  
The product is not subject to identification regulations pertaining to regulations on hazardous materials.
- **NFPA ratings (scale 0-4)**



- **HMIS ratings (scale 0-4)**

**4 First aid measures**

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.

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USA

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

**Product Name: Cefotiofur**

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- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this MSDS.

### 5 Firefighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**  
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses

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USA

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

**Product Name: Ceftiofur**

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**9 Physical and chemical properties****· General Information****· Appearance:**

**Form:** Solid.  
**Color:** According to product specification  
**· Odor:** Characteristic

**· Change in condition**

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** Not determined

**· Flash point:** Not applicable

**· Flammability (solid, gaseous)** Product is not flammable.

**· Danger of explosion:** Product does not present an explosion hazard.

**· Density:** Not determined

**· Solubility in / Miscibility with**

**Water:** Insoluble

**Solids content:** 100.0 %

**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- Acute toxicity:**
- Primary irritant effect:**
- on the skin:** No irritating effect.
- on the eye:** No irritating effect.
- Sensitization:** Sensitizing effect through inhalation is possible with prolonged exposure.
- Additional toxicological information:**  
The product is not subject to OSHA classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
The substance is not subject to classification.

**12 Ecological information**

- Aquatic toxicity:** No further relevant information available.
- Ecotoxicological effects:**
- Other information:**  
The ecological effects have not been thoroughly investigated, but currently none have been identified.

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USA

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

**Product Name: Ceftiofur**

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- **Additional ecological information:**
- **General notes:** *Generally not hazardous for water.*

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
*Smaller quantities can be disposed of with solid waste.  
 Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.  
 This product is not considered a RCRA hazardous waste.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to state and federal regulations.*

### 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** *No*
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:**  
*If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.*

### 15 Regulatory information

- **SARA Section 355 (extremely hazardous substances)**  
*Substance is not listed.*
- **SARA Section 313 (specific toxic chemical listings)**  
*Substance is not listed.*
- **TSCA (Toxic Substances Control Act)**  
*Substance is not listed.*
- **California Proposition 65 - Chemicals known to cause cancer**  
*Substance is not listed.*
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**  
*Substance is not listed.*
- **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**  
*Substance is not listed.*

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USA



Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

**Product Name: Cefotiofur**

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· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **NTP (National Toxicology Program)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **National regulations**

· **Water hazard class:** Generally not hazardous for water.

### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· **Department issuing MSDS:**

Environmental, Health & Safety

Created by Michael J. Spinazzola

· **Contact:** Technical Service Representative

USA

## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

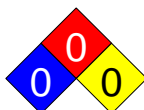
### 1 Identification

- **Product Identifier:**
- **Product Name:** Ceftiofur
- **Catalog Number:** 291255
- **Application of the substance / the mixture** Laboratory Chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BD Diagnostic Systems  
7 Loveton Circle  
Sparks, MD 21152  
Telephone: (410) 771 - 0100 or (800) 638 - 8663  
Email Address: [Technical\\_Services@bd.com](mailto:Technical_Services@bd.com)
- **Information Department:** Technical Service
- **Emergency telephone number:**  
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The substance is not classified according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**



Health = 0  
Flammability = 0  
Reactivity = 0

- **HMIS ratings (scale 0-4)**



HEALTH 0 Health = 0  
FIRE 0 Flammability = 0  
REACTIVITY 0 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

US

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## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

**Product Name: Ceftiofur**

(Contd. of page 1)

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description:**  
Not applicable

### 4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this SDS.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections** No dangerous substances are released.

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## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

Product Name: Ceftriaxone

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### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**  
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
No further data; see Section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**  
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

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**Safety Data Sheet**  
acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

**Product Name: Ceftiofur**

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**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Solid.  
    **Color:** According to product specification  
    **Odor:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Not determined  
    **Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· **Solubility in / Miscibility with**

**Water:** Insoluble

**Solids content:** 100.0 %

· **Other information** No further relevant information available.

**10 Stability and reactivity**

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

· **Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

**on the skin:** No irritating effect.

**on the eye:** No irritating effect.

· **Sensitization:** Sensitizing effect through inhalation is possible with prolonged exposure.

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US

## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

**Product Name: Ceftiofur**

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**· Additional toxicological information:**

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

**· Carcinogenic categories****· IARC (International Agency for Research on Cancer)**

Substance is not listed.

**· NTP (National Toxicology Program)**

Substance is not listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

### 12 Ecological information

**· Toxicity**

**· Aquatic toxicity:** No further relevant information available.

**· Persistence and degradability** No further relevant information available.

**· Behavior in environmental systems:**

**· Bioaccumulative potential** No further relevant information available.

**· Mobility in soil** No further relevant information available.

**· Ecotoxicological effects:**

**· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

**· Results of PBT and vPvB assessment**

**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· Other adverse effects** No further relevant information available.

### 13 Disposal considerations

**· Waste treatment methods****· Recommendation**

Smaller quantities can be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

This product is not considered a RCRA hazardous waste.

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US

**Safety Data Sheet**  
acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

**Product Name: Ceftiofur**

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.

**14 Transport information**

· <b>UN-Number</b>	Void
· <b>DOT, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	Void
· <b>DOT, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	Void
· <b>DOT, ADN, IMDG, IATA</b>	Void
· <b>Class</b>	Void
· <b>Packing group</b>	Void
· <b>DOT, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	No
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	If "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.
· <b>UN "Model Regulation":</b>	Void

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

· **SARA Section 313 (specific toxic chemical listings)**

Substance is not listed.

· **TSCA (Toxic Substances Control Act)**

Substance is not listed.

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## Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/03/2016

Reviewed On: 04/22/2016

**Product Name: Ceftiofur**

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**· California Proposition 65 - Chemicals known to cause cancer**

Substance is not listed.

**· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**· California Proposition 65 - Chemicals known to cause developmental toxicity:**

Substance is not listed.

**· Carcinogenic categories****· TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**· GHS label elements** Void**· Hazard pictograms** Void**· Signal word** Void**· Hazard statements** Void**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

**· Department issuing SDS:**

Environmental, Health &amp; Safety

Created by Michael J. Spinazzola

**· Contact:** Technical Service Representative**· Date of preparation / last revision** 06/03/2016 / -**· Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit