

Ceftiofur Sodium

Safety Data Sheet

According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)
Issue date: 09/23/2025 Version: 1.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Ceftiofur Sodium

1.2. Other means of identification

Other means of identification : Registered product - DIN 02412284

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Injectable drug

1.4. Supplier's details

Bio Agri Mix LP
P.O. Box 399
Mitchell, ON, N0K 1N0
Canada
T 519-348-9865

1.5. Emergency phone number

Emergency number : CANUTEC: 1-613-996-6666 (transport)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

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

Skin sensitization, Category 1 : May cause an allergic skin reaction.

2.2. GHS label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Precautionary statements (GHS CA) : Avoid breathing dust, mist.
Wear respiratory protection.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye and face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice or attention.
Specific treatment (see supplemental first aid instruction on this label).
Take off contaminated clothing and wash it before reuse.

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Supplementary information

Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

: Exempt - Registered product - (DIN 02412284).

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Ceftiofur sodium	5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-3-[(2-furanylcarbonyl)thio]methyl]-8-oxo-, monosodium salt, (6R,7R)- / Sodium ceftiofur	CAS-No.: 104010-37-9	100

Comments

: All concentrations are expressed as percentages by weight unless the ingredient is a gas.

CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of December 2022.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact

: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse.

First-aid measures after eye contact

: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid measures after ingestion

: Do not induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible). Medical personnel should be made aware of substance(s) involved and take measures for self protection. Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation

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

Symptoms/effects after skin contact

: May cause an allergic skin reaction.

Symptoms/effects after eye contact

: Direct contact with eyes may cause temporary irritation.

Symptoms/effects after ingestion

: May cause stomach distress, nausea or vomiting.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment

: Symptoms may be delayed. Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media

: Treat for surrounding material.

Unsuitable extinguishing media

: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard

: During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.

Explosion hazard

: No direct explosion hazard.

Hazardous decomposition products in case of fire

: May include and are not limited to: oxides of carbon.

5.3. Special protective actions for fire-fighters

Firefighting instructions

: Move containers from fire area if it can be done without personal risk.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. In the event of a significant spillage : Notify authorities if product enters sewers or public waters.

Environmental precautions

: Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment

: Stop leaks if it can be done without personal risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up

: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Minimise generation of dust.

Other information

: This material and its container must be disposed of in a safe way, and as per local legislation.

For further information refer to section 13

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust, mist. Ensure good ventilation of the work station. Wear personal protective equipment. Handle and open container with care.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
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SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: 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.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:

Wear protective gloves. Confirm with a reputable supplier first.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Wear suitable protective clothing. As required by employer code.

Respiratory protection:

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). Wear respiratory protection

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: White
Odour	: No data available
Odour threshold	: No data available

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pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat and direct sunlight. Do not mix with other chemicals.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: May include and are not limited to: oxides of carbon.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Unknown acute toxicity (GHS CA)	Not applicable.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Likely routes of exposure	: Skin and eyes contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Direct contact with eyes may cause temporary irritation.
Symptoms/effects after ingestion	: May cause stomach distress, nausea or vomiting.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: Not available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable
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Ceftiofur sodium (104010-37-9)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of the material collected according to regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with TDG

TDG

14.1. UN Number

Not regulated

14.2. UN Proper Shipping Name

Not regulated

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TDG
14.3. Transport hazard class(es)
Not regulated
14.4. Packing group, if applicable
Not regulated
14.5. Environmental hazards
Not regulated
No supplementary information available

14.6. Special precautions for user

TDG

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

All components of this product are present on DSL, except for:

Ceftiofur sodium (104010-37-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

SECTION 16 Other Information

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Other information

: For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document.

Exempt - Registered product - (DIN 02412284).

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VETERINARY USE ONLY

CAUTIONS: 1. The use of ceftiofur sodium in cattle may result in some signs of immediate and, transient local pain at the injection site. If no improvement is seen within 3 - 5 days, redetermine the diagnosis. 2. The administration of antibiotics to horses under conditions of stress may be associated with acute diarrhea that could be fatal. If acute diarrhea is observed, discontinue use of this drug and initiate appropriate therapy. 3. Since safety in breeding swine has not been determined, use in animals intended for breeding is not recommended. 4. For horses, safety in breeding animals and suckling foals (under 6 months of age) has not been established. 5. Reversible thrombocytopenia and anemia have occasionally been observed in dogs treated with ceftiofur for prolonged periods. Thus, the use of this drug is contraindicated in animals with pre-existing signs of these conditions. Prolonged therapy (greater than 14 days) should be undertaken only with appropriate evaluation and monitoring of hematologic values. 6. In dogs, safety in breeding, pregnant, lactating and neonatal animals has not been established.

WARNINGS: Treated swine and lambs must not be slaughtered for use in food for at least 24 hours after the latest treatment with this drug. No meat withdrawal period or milk withholding time is required for cattle when the drug is used according to the label directions and dosage. This drug is not to be administered to horses that are to be slaughtered for use in food. Antimicrobial drugs, including penicillins and cephalosporins can cause allergic reactions in sensitized individuals. (To minimize the possibility of such a reaction, users of such antimicrobial products, including ceftiofur, are advised to avoid direct contact of the product with the skin and mucous membranes). To limit the development of antimicrobial resistance: Ceftiofur sodium for Injection should not be used as a mass medication for cattle, swine or any other species. Ceftiofur sodium for Injection should only be used to treat individual animals as per the indications. The choice of Ceftiofur sodium for Injection as the most appropriate treatment should be confirmed by clinical experience supported where possible by pathogen culture and drug susceptibility testing. The extra-label drug use of Ceftiofur sodium for Injection is not recommended.

KEEP OUT OF REACH OF CHILDREN.

STORAGE: 1. Store unreconstituted product at a temperature between 15 and 30°C. 2. Reconstituted product - store reconstituted product at a temperature between 2 and 8°C for up to 7 days, between 15 and 30°C for up to 12 hours, or frozen for up to 8 weeks. Although some breakage may occur with the frozen product, thaw by immersing the vial in hot, running tap water until a clear, ice-free solution is obtained and then use according to label. Do not freeze and thaw reconstituted product more than once. 3. Colour of cake may vary from off-white to tan and does not affect potency. 4. Protect from light.

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