# SAFETY DATA SHEET



## 1. Identification

Product identifier	Cefotaxime Related Comp	ound E
Other means of identification		
Catalog number	1097953	
CAS number	66340-33-8	
Synonyms	Desacetylcefotaxime lactone	9
Chemical name		I-[(5aR,6R)-1,7-dioxo-1,3,4,5a,6,7-hexahydroazeto -6-yl]-2-(methoxyimino)-acetamide
Recommended use	Specified quality tests and a	ssay use only.
Recommended restrictions	Not for use as a drug. Not fo	or administration to humans or animals.
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790	
<b>-</b>	United States	004 040 0400
Telephone Website	RS Technical Services www.usp.org	301-816-8129
E-mail	RSTECH@usp.org	
Emergency phone number	CHEMTREC within US &	1-800-424-9300
	Canada CHEMTREC outside US & Canada	+1 703-527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Precautionary statement		
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace. In case of inadequate ventilation wear respiratory protection.	
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.	
Storage	Not available.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	

Pharmaceutical related compound of unknown potency.

## 3. Composition/information on ingredients

Substance			
Chemical name	Common name and synonyms	CAS number	%
Cefotaxime Related Compound	E Desacetylcefotaxime lactone	66340-33-8	100
4. First-aid measures			
Inhalation	Move to fresh air. Oxygen or artificial respirati the substance is inhaled. Induce artificial resp one-way valve or other proper respiratory me Call a poison center or doctor/physician.	piration with the aid of a pocket	mask equipped with
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica minor skin contact, avoid spreading material of	I attention and take along these	
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
Ingestion	Rinse mouth. If ingestion of a large amount de	oes occur, call a poison control	center immediately.
Most important symptoms/effects, acute and delayed	Pharmaceutical related compound of unknow may cause physiological effects. May cause a reaction.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea overdose may include the following: Administ hypersensitivity, administer epinephrine and o benzodiazepine IV or barbiturates if needed. and renal abnormalities; for hypotension; and	ter activated charcoal as a slurr liphenhydramine. Treat seizure Monitor fluid and electrolyte sta	y. For acute es with a
General information	Remove from exposure. Remove contaminate an occupational health physician or other lice chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, gi oxygen if available. Persons developing serio receive immediate medical attention.	nsed health-care provider famil national poison control center ve artificial respiration. If breath	ar with workplace phone number is ing is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-	extinguishing media appropriate	e for surrounding
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.		
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.		
Fire fighting equipment/instructions	As with all fires, evacuate personnel to a safe breathing equipment and protective clothing.		
Specific methods	Use standard firefighting procedures and con-	sider the hazards of other invol-	ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions,	Keep unnecessary personnel away. Wear app	propriate personal protective ec	uipment. Avoid

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage	
Precautions for safe handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.
Conditions for safe storage, including any incompatibilities	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.
8. Exposure controls/perse	onal protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	No open handling. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Other	Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
Respiratory protection	Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Pharmacological effects may be seen with occupational exposure. Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

## 9. Physical and chemical properties

Appearance	Appearance descriptions are general information and not specific to any USP lot.	
Physical state	Solid.	
Form	Powder.	
Color	Off-white. Light yellow.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	> 428 °F (> 220 °C)	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	

Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	DMSO: Slightly. Methanol: Slightly.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Chemical family	Cephalosporin.
Molecular formula	C14H13N5O5S2
Molecular weight	395.41
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.

Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	NOx. SOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

## 11. Toxicological information

## Information on likely routes of exposure

information on likely routes of e	exposure
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	May cause an allergic skin reaction.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Knowledge about health hazard is incomplete.
Symptoms related to the physical, chemical and toxicological characteristics	Related material: Cephalosporins: Gastrointestinal disturbances. Respiratory difficulties. Sore throat. Vaginal itching. White patches in mouth. It is not known if this material causes the same effects.
Information on toxicological eff	ects
Acute toxicity	Not known.
Skin corrosion/irritation	Knowledge about health hazard is incomplete.
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.
Respiratory or skin sensitizatio	n
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Knowledge about health hazard is incomplete.
Carcinogenicity	Knowledge about carcinogenicity is incomplete.
IARC Monographs. Overall	Evaluation of Carcinogenicity
	ed Substances (29 CFR 1910.1001-1053)
Not listed.	ogram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Knowledge about health hazard is incomplete. A population-based case control study did not find an association between therapeutic use of cephalosporins during pregnancy and birth defects.

Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.

## 12. Ecological information

Ecotoxicity	There are no data on the ecotoxicity of this product.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
General information	It is the shipper's responsibility to

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory information

15. Regulatory mormativ	
US federal regulations	CERCLA/SARA Hazardous Substances - Not applicable.
	One or more components are not listed on TSCA. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>Toxic Substances Control</b>	Act (TSCA)
TSCA Section 12(b) E	xport Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Subs	tance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency rele	ease notification
Not regulated.	
OSHA Specifically Regula	ted Substances (29 CFR 1910.1001-1053)
Not listed.	
Superfund Amendments and F	Reauthorization Act of 1986 (SARA)
SARA 302 Extremely haza	Irdous substance

Not listed.

SARA 311/312 Hazardous	Yes
chemical	

Classified hazard	Respiratory or skin sensitization
categories	

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

### **US** state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

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

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

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

Issue date	06-28-2013
Revision date	09-22-2020
Version #	03
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