

# SAFETY DATA SHEET

### 1. Identification

Product identifier	Cefadroxil Related Compo	und D	
Other means of identification			
Catalog number	1097148		
CAS number	144790-28-3		
Synonyms	L-cefadroxil		
Chemical name	oct-2-ene-2-carboxylic acid	-hydroxyphenyl)acetamido]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]	
Recommended use	Specified quality tests and a	ssay use only.	
Recommended restrictions	Not for use as a drug. Not for	or administration to humans or animals.	
Manufacturer/Importer/Supplier/I	Distributor information		
Manufacturer			
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States		
Telephone	RS Technical Services	301-816-8129	
Website	www.usp.org		
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. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. 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/contained	er in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Pharmaceutical related compound of unknown potency.		

## 3. Composition/information on ingredients

#### Substance

Chemical name	Common name and synonyms	CAS number	%
Cefadroxil Related Compound D	L-cefadroxil	144790-28-3	100
4. First-aid measures			
Inhalation	If breathing is difficult, remove to fresh air an Call a physician if symptoms develop or pers		nfortable for breathing.
Skin contact	Rinse skin with water/shower. Get medical at	ttention if irritation develops an	d persists.
Eye contact	Rinse with water. Get medical attention if irrit	ation develops and persists.	
Ingestion	Rinse mouth. If ingestion of a large amount of	loes occur, call a poison contro	ol center immediately.
Most important symptoms/effects, acute and delayed	Pharmaceutical related compound of unknow may cause physiological effects.	vn potency. It is not known if o	ccupational exposure
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Administer activated of manage anaphylaxis with establishment of pa- seizures, administer a benzodiazepine intrav- seizures recur. Monitor for hypotension, dysr endotracheal intubation. Evaluate for hypogly dysrhythmias, treat with standard anti-arrhytt status. Monitor renal function. Monitor hemat Vitamin K. For mild pseudomembranous coliti or severe pseudomembranous colitis, manage supplementation, and treatment with an antit difficile colitis. Hemodialysis may be of benefit	atent airway, epinephrine, and enously, followed by phenobar hythmias, respiratory depressi ycemia, electrolyte disturbance mic drugs, if necessary. Monit cologic abnormalities. For coag tis, treatment is usually not nec ge with fluids and electrolytes, pacterial drug clinically effective	diphenhydramine. For bital or propofol if the on, and need for es, hypoxia. For tor fluid and electrolyte ulopathies, administer cessary. For moderate protein
General information	Remove from exposure. Remove contaminat an occupational health physician or other lice chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, g oxygen if available. Persons developing serie receive immediate medical attention.	ensed health-care provider fam e national poison control cente ive artificial respiration. If brea	iliar with workplace r phone number is thing is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire- materials.	-extinguishing media appropria	ate for surrounding
Unsuitable extinguishing media	None known.		

media	
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 area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid Personal precautions, inhalation of dust from the spilled material. Do not touch damaged containers or spilled material protective equipment and unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal emergency procedures protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Methods and materials for Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface containment and cleaning up thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage **Environmental precautions** if safe to do so. 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/personal 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	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. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). No open handling.	
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	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. Consider double gloves.	
Other	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. 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.	
Respiratory protection	Chose respiratory protection appropriate to the task and the level of existing engineering controls. Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	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. Pharmacological effects may be seen with occupational exposure.	

# 9. Physical and chemical properties

Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
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 exp	losive 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.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	C16H17N3O5S
Molecular weight	363.39

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under 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 ea	kposure		
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	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 effe	octs		
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 sensitization			
Respiratory sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. For cephalosporins: Anaphylaxis has been reported with therapeutic use.		
Skin sensitization	May cause an allergic skin reaction. For cephalosporins: Hypersensitivity reactions have been reported with therapeutic use.		
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.		
Carcinogenicity	Knowledge about carcinogenicity is incomplete.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Not listed.			
	d Substances (29 CFR 1910.1001-1050)		
Not regulated. US. National Toxicology Pro	gram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	A population-based case control study did not find an association between therapeutic use of cephalosporins during pregnancy and birth defects. Knowledge about health hazard is incomplete.		
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.		
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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** 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 wa disposal company.	ste
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container r be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with lo regulations.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposa Since emptied containers may retain product residue, follow label warnings even after contain emptied.	
14. Transport information		
DOT		
Not regulated as dangerous go	bods.	
Not regulated as dangerous g		
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 determine the correct transport classification at the time of shipment.	
15. Regulatory information	l de la constante de	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed. SARA 304 Emergency releas	se notification	
Not regulated. OSHA Specifically Regulated Not regulated.	d Substances (29 CFR 1910.1001-1050)	
-	authorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazard	-	
Not listed. SARA 311/312 Hazardous	Yes	
chemical	165	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
	112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This materia is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	erial
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
Europo	Europeon Inventory of Evisting Commercial Chemical	No

European Inventory of Existing Commercial Chemical

Substances (EINECS)

Europe

No

Country(s) or region	Inventory name	On inventory (yes/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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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	12-26-2012
Revision date	06-07-2018
Version #	03
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