

SAFETY DATA SHEET

1. Identification

Product identifier Cephalexin Related Compound D

Other means of identification

Catalog number 1099041

Chemical name 3-Hydroxy-4-methylthiophen-2(5H)-one Recommended use Specified quality tests and assay use only.

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Company name U. S. Pharmacopeia **Address** 12601 Twinbrook Parkway

Rockville

MD

20852-1790

US

Telephone RS Technical Services 301-816-8129

Website www.usp.org

E-mail RSTECH@usp.org

CHEMTREC within US & **Emergency phone number** 1-800-424-9300

Canada

CHEMTREC outside US &

+1 703-527-3887

Canada

2. Hazard(s) identification

Note Information on the chemical, physical, and toxicological properties of this material is not readily

available. Individuals working with this chemical should consider it to be potentially hazardous

even if its actual hazards may be uncharacterized or unknown.

Physical hazards Not classified. Not classified. **Health hazards** Not classified. OSHA hazard(s)

Label elements

Hazard symbol No symbol. Signal word Not available. **Hazard statement** Not available.

Precautionary statement

Prevention Not available. Response Not available. Storage Not available. Disposal Not available.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Substance

Non-hazardous components

Chemical name % Common name and synonyms **CAS** number Cephalexin Related Compound 34876-35-2 100

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Material name: Cephalexin Related Compound D USP SDS US Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Not available.

General information

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and

materials.

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 area. Firefighters should use self-contained

breathing equipment and protective clothing.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.

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. Use of a designated area is recommended for handling of potent materials.

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

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

No exposure standards allocated.

Appropriate engineering controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate

Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Hand protection

Chemically compatible gloves. For handling solutions, ensure that the glove material is protective

against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Other

For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

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Respiratory protection Where respirators are deemed necessary to reduce or control occupational exposures, use

NIOSH-approved respiratory protection and have an effective respirator program in place

(applicable U.S. regulation OSHA 29 CFR 1910.134).

Thermal hazards

General hygiene Handle in accordance with good industrial hygiene and safety practice.

considerations

9. Physical and chemical properties

Appearance Solid. **Physical state** Solid. **Form** Solid.

Not available. Odor **Odor threshold** Not available. Not available. Ηq

89.6 - 93.2 °F (32 - 34 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Not available.

Not available.

Flammability limit - upper

(%)

Not available. **Explosive limit - lower (%)**

Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Relative density Not available. Not available. Solubility in water **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Molecular formula C5H6O2S 130.16 Molecular weight

10. Stability and reactivity

Reactivity No reactivity hazards known.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known. Incompatible materials None known.

Hazardous decomposition

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. SOx.

11. Toxicological information

Information on likely routes of exposure

Due to lack of data the classification is not possible. Ingestion Due to lack of data the classification is not possible. Inhalation Skin contact Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. Eye contact

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Symptoms related to the physical, chemical, and toxicological characteristics Not available.

Acute toxicity Due to lack of data the classification is not possible. Skin corrosion/irritation Due to lack of data the classification is not possible. Serious eye damage/eye Due to lack of data the classification is not possible. irritation

Due to lack of data the classification is not possible. Respiratory sensitization Skin sensitization Due to lack of data the classification is not possible. Germ cell mutagenicity Due to lack of data the classification is not possible. Carcinogenicity Due to lack of data the classification is not possible.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. Specific target organ toxicity single exposure

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Based on available data, the classification criteria are not met. Aspiration hazard

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 Not available.

Mobility in soil Not available Not available. Other adverse effects

13. Disposal considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste

> according to Federal regulations (40 CFR 261.4 (b)(4)). 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. Dispose in accordance with all applicable regulations.

Local disposal regulations Not available. Hazardous waste code Not regulated.

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 a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

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SARA 311/312 Hazardous

chemical

No

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA)

d and Drug Not regulated.

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.

International Inventories

US state regulations

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
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)

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

 Issue date
 01-04-2013

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Further information Not available.

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AND FITNESS FOR A PARTICULAR PURPOSE is made with respect to the information

contained herein.

Revision Information First-aid measures: Eye contact

First-aid measures: Skin contact First-aid measures: Inhalation

Physical & Chemical Properties: Multiple Properties Stability and reactivity: Hazardous decomposition products

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