Common Name: Cefaclor Capsules and Tablets

Chemical Name: 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7-[(2R)-aminophenylacetyl] amino]-3-chloro-8-oxo-, monohydrate, (6R,7R)-

Chemical Name 2: 3-Chloro-7-D-(2-phenylglycinamido)-3-cephem-4-carboxylic acid monohydrate

Synonym(s): 099638 Formulation; 7250; 7500; Alfatil Gelules; Cefaclor CD; Cefaclor AF; Cefaclor; Alfatil LP; Cefaclor Capsule Mix; Kloclor BD; Cefaclor Tablets; Cefaclor Tablet Mix; Cefaclor MR; Cefaclor Extended Release Tablet; Cefaclor Convenient Dose Tablet; Cefaclor Chewable Tablet; Cefaclor Capsules

Trademarks(s): Ceclor; Alfacef; Alfatil; Alpha/Arrow; Cecloretta; Cloracef; Distaclor; Gliamin; Kefalor; Keflor; Kefolor; Kefrol; Kloclor; L-Kefral; Panacef; Panoral; Cefaclor AF; Cefclor CD

Lilly Item Code(s): CK0876; CK0906; CK0917; CK0939; DD3061; DD3062; ND0724; ND0771; ND0918; ND0945; ND0949; ND0970; ND0976; PU3060; PU3061; PU3062; PU3201; QA252N; QA395M; QA446J; QA450Y; QA452V; QA473B; QA477A; TA4059; TA4060; TA4061; TA4062; TA4074; TA4076; TA4220; TA4401; UC5004; UC5005; UC5018; UC5368; UC5369; UC5391; UC5392; UC5902; UC5917; UC5918; UC5923; UC5924; UC5927; UC5936; UC5937; UC5969; UC7566; UC7567; UC7568; UC7572; UC7573; UC7574; UC7575; UC7576; UC7580; UC7581; UC7586; UC7587; UC8934; UC8935; UC8940; UC8941; UC8942; UC8950; UC8951; UC8952; UC8953; UC8954; UC8959; UC8960; UC8961; UC8976; UC8978; UC8980; UC8981; UC8982; UC9503; UC9521; UC9522; UC9523; UC9531; UC9533; UC9534; UC9553; UC9554; UE0007; UE0008; UE0020; UE0021; UF0030; UF0031; UG9021; UG9022; VF0075; VF0078; VF0129; VF0130; VF0141; VF0245; VF0258; VF0259; VF0272; VF0277; VF0278; VF0286; VF0287; VF0307; VF0308; VF0309; VF0310; VF0325; VF0349

See attached glossary for abbreviations.

### Section 2 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cefaclor</td>
<td>70356-03-5</td>
<td>13 - 92</td>
</tr>
<tr>
<td>Excipients</td>
<td>NA</td>
<td>8 - 87</td>
</tr>
</tbody>
</table>
Contains no hazardous components (one percent or greater) or carcinogens (one-tenth percent or greater) not listed above.

**Exposure Guidelines:**
Cefaclor - LEG <100 micrograms/m3 TWA for 12 hours.

## Section 3 - Hazards Identification

**Appearance:** White powder finished as capsules or film-coated tablets  
**Physical State:** Solid  
**Odor:** Odorless

### Emergency Overview

**Emergency Overview Effective Date:** 23-Apr-1994

**Lilly Laboratory Labeling Codes:**
- **Health:** 2  
- **Fire:** 1  
- **Reactivity:** 0  
- **Special:** A

**Primary Physical and Health Hazards:** Not hazardous if intact. Irritant (eyes). Severe Allergen.

**Caution Statement:** Intact Cefaclor Capsules and Tablets are not considered to be a health hazard. Cefaclor Capsules and Tablets contains cefaclor which may be irritating to the eyes and causes severe allergic reactions.

**Routes of Entry:** Inhalation and skin contact.

**Effects of Overexposure:** Capsules and tablets are intended for human consumption under guidance of a physician. Capsules and coated tablets are not considered hazardous under normal handling procedures. Effects of exposure to contents of capsule or powder used to make tablets have included eye irritation and allergic reactions. Based on prior experience with cephalosporin antibiotics, allergic reactions may include rash, nasal congestion, cough, dry throat, gastrointestinal upset, eye irritation, or anaphylactic shock.

**Medical Conditions Aggravated by Exposure:** Hypersensitivity to penicillin or cephalosporin.

**Carcinogenicity:** Cefaclor - No carcinogenicity data found. Not listed by IARC, NTP, ACGIH, or OSHA.
Section 4 - First Aid Measures

**Eyes:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist (eye doctor) or other physician immediately.

**Skin:** Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.

**Inhalation:** Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately.

**Ingestion:** Do not induce vomiting. Call a physician or poison control center. If available, administer activated charcoal (6-8 heaping teaspoons) with two to three glasses of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

Section 5 - Fire Fighting Measures

**Flash Point:** No applicable information found
**UEL:** No applicable information found
**LEL:** No applicable information found

**Extinguishing Media:** Use water, carbon dioxide, dry chemical, foam, or Halon.

**Unusual Fire and Explosion Hazards:** As a finely divided material, may form dust mixtures in air which could explode if subjected to an ignition source.

**Hazardous Combustion Products:** May emit toxic chloride fumes when exposed to heat or fire.

Section 6 - Accidental Release Measures

**Spills:** Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions). Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping.

Section 7 - Handling and Storage

**Storage Conditions:** Controlled Room Temperature: 15 to 30 C (59 to 86 F). Keep dry.

Section 8 - Exposure Controls / Personal Protection

See Section 2 for Exposure Guideline information.

Filled capsules and compressed tablets are not considered hazardous under normal handling procedures
and protective equipment is not required. The following are recommended for manufacturing or other situations where exposure to contents may occur.

**Respiratory Protection:** Use an approved respirator.

**Eye Protection:** Chemical goggles and/or face shield.

**Ventilation:** Laboratory fume hood or local exhaust ventilation.

**Other Protective Equipment:** Chemical-resistant gloves and body covering to minimize skin contact. If handled in a ventilated enclosure, as in a laboratory setting, respirator and goggles or face shield may not be required. Safety glasses are always required.

**Additional Exposure Precautions:** In production settings, airline-supplied, hood-type respirators are preferred. Shower and change clothing if skin contact occurs.

### Section 9 - Physical and Chemical Properties

**Appearance:** White powder finished as capsules or film-coated tablets  
**Odor:** Odorless  
**Boiling Point:** Not applicable  
**Melting Point:** No applicable information found  
**Density:** No applicable information found  
**pH:** No applicable information found  
**Evaporation Rate:** No applicable information found  
**Water Solubility:** Slightly soluble  
**Vapor Density:** No applicable information found  
**Vapor Pressure:** No applicable information found

### Section 10 - Stability and Reactivity

**Stability:** Stable at normal temperatures and pressures.

**Incompatibility:** May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.).

**Hazardous Decomposition:** May emit toxic chloride fumes when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

### Section 11 - Toxicological Information

**Acute Exposure**  
Data for the active ingredient, cefaclor, are reported.

**Oral:** Cefaclor - Rat, 5000 mg/kg, no deaths or toxicity.
Monkey, 1000 mg/kg, no deaths, diarrhea.

**Skin:** Cefaclor - Rabbit, 500 mg/kg, no deaths or toxicity.

**Inhalation:** Cefaclor - Rat, 224 mg/m^3^ for 1 hour, no deaths or toxicity.

**Intraperitoneal:** Cefaclor - Rat, median lethal dose 1259 mg/kg.

**Skin Contact:** Cefaclor - Rabbit, nonirritant

**Eye Contact:** Cefaclor - Rabbit, slight irritant

### Chronic Exposure

Data for the active ingredient, cefaclor, are reported.

**Target Organ Effects:** Cefaclor - Kidney effects (dilation of renal tubules).

**Other Effects:** Cefaclor - Vomiting, soft stools, reversible thrombocytopenia.

**Reproduction:** Cefaclor - No effects identified in animal studies.

**Sensitization:** Cefaclor - Guinea pig, not a contact sensitizer.

**Mutagenicity:** No applicable information found.

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### Section 12 - Ecological Information

**Ecotoxicity Data:** Cefaclor

Daphnia magna 48-hour median effective concentration:  > 916 mg/L  
Green algae (S. capricornutum) median effective concentration:  > 35 mg/L

**Environmental Fate:** Cefaclor

Dissociation constants (pKa):  2.43, 7.16  
Log Kow:  < 1 (pH 5)  
Water solubility (g/L):  8.59 (pH 5)  
Light absorption (nm):  264  
Hydrolysis half-life (hrs):  406, 48, 13 (pH 5, 7, 9)  
Hydrolysis rate (1/hrs):  0.00171, 0.0144, 0.0523, (pH 5, 7, 9)

**Environmental Summary:** Cefaclor - Practically nontoxic to aquatic invertebrates. Slightly toxic to green algae. No volatility expected. Low potential to bioconcentrate in aquatic organisms. Not persistent in water due to hydrolysis.

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### Section 13 - Disposal Considerations

**Waste Disposal:** Dispose of any cleanup materials and waste residue according to all applicable laws and regulations.
Section 14 - Transport Information

Regulatory Organizations:

DOT: Not Regulated

ICAO/IATA: Not Regulated

IMO: Not Regulated

Section 15 - Regulatory Information

Below is selected regulatory information chosen primarily for possible Eli Lilly and Company usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

U.S. Regulations
Cefaclor
TSCA - No
CERCLA - Not on this list
SARA 302 - Not on this list
SARA 313 - Not on this list
OSHA Substance Specific - No

EU Regulations

EC Classification
Contains cefaclor (C = 13 – 92%).
Xn (Harmful)
Xi (Irritant)

Risk Phrases
R 36 - Irritating to eyes.
R 42/43 - May cause sensitization by inhalation and skin contact.

Safety Phrases
S 25 - Avoid contact with eyes.
S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Section 16 - Other Information

MSDS Sections Revised: Section 1.

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it
is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE
ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR
FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this
material, this safety data sheet is not intended to be a substitute for consultation with appropriately
trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which
may accompany the finished product.

For additional information contact:
Eli Lilly and Company
Hazard Communication
317-651-9533

For additional copies contact:
Eli Lilly and Company
1-800-LILLY-Rx (1-800-545-5979)

GLOSSARY:

ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
BEI = Biological Exposure Index
CAS Number = Chemical Abstract Service Registry Number
CERCLA = Comprehensive Environmental Response Compensation and Liability Act (of 1980)
CHAN = Chemical Hazard Alert Notice
CHEMTREC = Chemical Transportation Emergency Center
DOT = Department of Transportation
EC = European Community
EINECS = European Inventory of Existing Chemical Substances
ELINCS = European List of New Chemical Substances
EPA = Environmental Protection Agency
HEPA = High Efficiency Particulate Air (Filter)
IARC = International Agency for Research on Cancer
ICAO/IATA = International Civil Aviation Organization/International Air Transport Association
IEG = Lilly Interim Exposure Guideline
IMO = International Maritime Organization
Kow = Octanol/Water Partition Coefficient
LEG = Lilly Exposure Guideline
LEL = Lower Explosive Limit
MSDS = Material Safety Data Sheet
MSHA = Mine Safety and Health Administration
NA = Not Applicable, except in Section 14 where NA = North America
NADA = New Animal Drug Application
NAIF = No Applicable Information Found
NCI = National Cancer Institute
NIOSH = National Institute for Occupational Safety and Health
NOS = Not Otherwise Specified
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit (OSHA)
RCRA = Resource Conservation and Recovery Act
RQ = Reportable Quantity
RTECS = Registry of Toxic Effects of Chemical Substances
SARA = Superfund Amendments and Reauthorization Act
STEG = Lilly Short Term Exposure Guideline
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value (ACGIH)
TPQ = Threshold Planning Quantity
TSCA = Toxic Substances Control Act
TWA = Time Weighted Average/8 Hours Unless Otherwise Noted
UEL = Upper Explosive Limit
UN = United Nations
WEEL = Workplace Environmental Exposure Level (AIHA)