

1. IDENTIFICATION

Product Identifier	Cefteram pivoxil
Product Number	C144
Distributor Name	TOKU-E Company
Distributor Address	715 W Orchard Dr, Suite 3 Bellingham, WA 98225
Phone Number	(360) 734-1789
Emergency Phone Number (International)	+1 (352) 323-3500
Emergency Phone Number (US only)	1 (800) 535-5053
Safety Data Sheet Issued by	TOKU-E USA
CAS-Number	[82547-81-7]
EC/ REACH Number	Not available
Recommended Use	Third-generation cephalosporin antibiotic
Restrictions on Use	Not for human or animal use

2. HAZARD(S) IDENTIFICATION

GHS Classification	Respiratory sensitization (Category 1) Skin sensitization (Category 1) Reproductive toxicity (Category 2)
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GHS Label Elements, Including
Precautionary statements



Hazard Statements

Signal Word: Danger
H317: May cause an allergic skin reaction
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H361: Suspected of damaging fertility or the unborn child
P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P272: Contaminated work clothing should not be allowed out of the workplace
P281: Use personal protective equipment as required

Precautionary Statements

Hazards not otherwise classified (HNOC) by GHS	<p>P285: In case of inadequate ventilation, wear respiratory protection</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water</p> <p>P304 + P352: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing</p> <p>P321: Specific treatment (see supplemental first aid instructions)</p> <p>P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention</p> <p>P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician</p> <p>P405: Store locked up</p> <p>P501: Dispose of contents/ container to an approved waste disposal plant</p> <p>None</p>
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s)	T-2588; Tomiron;
Formula	5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 7-(((2-amino-4-thiazolyl)(methoxyimino)acetyl)amino)-3-((5-methyl-2H-tetrazol-2-yl)methyl)-8-oxo-, (2,2-dimethyl-1-oxopropoxy)methyl ester, (6R-(6-alpha,7-beta(Z)))-
Molecular Weight	C ₂₂ H ₂₇ N ₉ O ₇ S ₂ 593.64 g/mol
CAS-Number	[82547-81-7]
EC Number	Not available
Index-Number	Not available
Hazardous components	Cefteram pivoxil Respiratory sensitization (Category 1) Skin sensitization (Category 1) Reproductive toxicity (Category 2)

4. FIRST-AID MEASURES

General Advice	Consult a physician. Show this Safety Data Sheet to the medical provider
If Inhaled	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a doctor

In Case of Skin Contact	Wash thoroughly with plenty of soap and water. Consult a physician
In Case of Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes
If Swallowed	Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	Please see Section 2 and/or Section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide
Special Protective Equipment for Firefighters	Wear self-contained breathing apparatus
Hazardous Combustion Products	Formed under fire conditions: Carbon, Nitrogen, and Sulfur oxides

6. ACCIDENTAL RELEASE MEASURES

General	Evacuate personnel to safe location
Personal Precautions	Wear respiratory protection. Avoid dust formation and breathing vapors/mist/dust/gas. Ensure adequate ventilation
Environmental Precautions	Prevent spillage, do not let product enter drains
Methods of Containment and Cleanup	Place in suitable, closed containers for licensed disposal. Avoid dust formation

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes. Provide exhaust ventilation in areas where dust is formed
Precautions for Safe Storage	Keep container tightly closed and in a dry, well-ventilated place. Recommended storage temperature: -20°C
Incompatibilities	None known

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values	
PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air

	respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
PPE: Hand Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection	Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance	Powder
pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Ignition Temperature	No data available
Autoignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	No data available
Density	No data available
Water Solubility	No data available
Solubility in Other Solvents	No data available
Partition Coefficient: n-octanol/water	No data available
Optical Rotation	No data available
Absorbance (290nm, 5% in H ₂ O)	No data available
Water content (Loss on drying)	No data available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Materials to Avoid	Strong oxidizing agents

Hazardous Decomposition Products

Carbon, Nitrogen, and Sulfur oxides formed under fire conditions

11. TOXICOLOGICAL INFORMATION

Oral TD_{Lo}

Rat: 91,000 mg/kg/26W-I

Remarks, Gastrointestinal: Other changes

Remarks, Liver: Changes in liver weight

Remarks, Endocrine: Hypoglycemia

Oral LD₅₀

Rat: >6,000 mg/kg

Remarks, Behavioral: Somnolence (general depressed activity)

Remarks, Skin and Appendages: Hair

Mouse: >6,000 mg/kg

Remarks, Behavioral: Somnolence (general depressed activity)

Remarks, Skin and Appendages: Hair

Dog: >2,000 mg/kg

No data available

Inhalation LC₅₀

No data available

Dermal LD₅₀

Rat: 5,090 mg/kg

Remarks, Behavioral: Somnolence (general depressed activity)

Remarks, Lungs, Thorax, or Respiration:

Respiratory depression

Remarks, Skin and Appendages: Hair

Mouse: 5,860 mg/kg

Remarks, Behavioral: Somnolence (general depressed activity)

Remarks, Lungs, Thorax, or Respiration:

Respiratory depression

Remarks, Skin and Appendages: Hair

Intravenous LD₅₀

No data available

Subcutaneous LD₅₀

Rat: >6,000 mg/kg

Remarks, Skin and Appendages: Dermatitis, other (after systemic exposure)

Mouse: >6,000 mg/kg

Remarks, Behavioral: Somnolence (general depressed activity)

Remarks, Skin and Appendages: Hair

Skin Corrosion/Irritation

No data available

Serious Eye Damage/ Eye Irritation

No data available

Respiratory or Skin Sensitization

β-lactams are a broad class of antibiotics and include penicillins and cephalosporins.

Some individuals experience adverse immunological responses or allergic reactions to β-lactam antibiotics. Because of the similarity in structure between penicillins and

cephalosporins, those who are allergic to one class of agents may manifest cross-allergenicity when exposed to a member of another class. TOKU-E Company assumes this chemical has the potential to induce an allergic reaction in some individuals. To the best of our knowledge, the correlation between this specific material and respiratory or skin sensitization has not been thoroughly investigated.

Germ Cell Mutagenicity
Carcinogenicity

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive Toxicity

Oral TD_{Lo} Female Rat, 7-17 days after conception: 11,000 mg/kg

Remarks, Specific Developmental Abnormalities: Musculoskeletal system

Remarks, Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive)

No data available

Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System)

No data available

Specific Target Organ Toxicity: Repeated Exposure (Globally Harmonized System)

Aspiration Hazard

No data available

Potential Health Effects

See Section 2, Hazard(s) Identification

Signs and Symptoms of Exposure

Cephalosporins are associated with gastrointestinal disturbance, increased liver enzymes, lymphocytosis, cholestatic jaundice, and diarrhea. Because of the similarity in structure of the penicillins and cephalosporins, those who are allergic to one class of agents may manifest cross-allergenicity when a member of another class is encountered.

Synergistic Effects	To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated
Additional Information	No data available RTECS: XI0367400

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Harmful to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal	

13. DISPOSAL CONSIDERATIONS

Product	Dispose of product through a licensed disposal company
Contaminated Packaging	Dispose of as unused product

14. TRANSPORTATION INFORMATION

DOT (US)	Not Dangerous Goods
IMDG	Not Dangerous Goods
IATA	Not Dangerous Goods

15. REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know Components	Cefteram pivoxil CAS-Number [82547-81-7] Revision Date: Not available
New Jersey Right to Know Components	Cefteram pivoxil CAS-Number [82547-81-7] Revision Date: Not available
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm
EU Information	SDS in accordance with REACH 1907/2006

A registration number is not available for this substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline. See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION

Date of last revision: 2016-04-02

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TOKU-E Company. shall not be held liable for any damage resulting from handling or from contact with the above product. Please see reverse side of invoice or packing slip for additional terms and conditions of sale.