

Safety Data Sheet

Revision Date: 4/5/2022

Section 1: Chemical Identification

1.1 Chemical Identification

Product Name: Cefpirome Sulfate
Alternative Name: HR 810 sulfate
Catalog Number: C-701

1.2 Relevant Uses and Uses Advised Against

Recommended use: This product is not for use in humans. It is for research purposes only.

1.3 Supplier Contact Information

Distributed by: Gold Biotechnology, Inc.
1328 Ashby Rd.
St. Louis, MO 63132
Phone: (314) 890-8778
Fax: (314) 890-0503
Email: contactgoldbio86@goldbio.com

1.4 Emergency Contact Information

Emergency Phone: (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

Section 2: Hazardous Information

2.1 GHS Classification

Respiratory Sensitizer (Category 1)
Skin Sensitizer (Category 1)
Reproductive Toxicity (Category 2)

2.2 GHS Label Elements, Including Precautionary statements



DANGER!

2.3 Hazard Statements

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

2.4 Precautionary Statements

P201: Obtain special instructions before use

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- P202:** Do not handle until all safety precautions have been read and understood
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P272: Contaminated work clothing should not be allowed out of the workplace
P280: Wear protective gloves/protective clothing/eye protection/face protection
P281: Use personal protective equipment as required
P285: In case of inadequate ventilation wear respiratory protection
P302+352: IF ON SKIN: Wash with soap and water
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P308+313: IF exposed or concerned: Get medical advice/attention
P321: Specific treatment (see First Aid Measures on this label)
P333+313: If skin irritation or a rash occurs: Get medical advice/attention
P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P362: Take off contaminated clothing and wash before reuse
P405: Store locked up
P501: Dispose of contents/container to an approved waste disposal plant

Section 3: Composition/Information on Ingredients

3.1 Composition

Identity:	Cefpirome Sulfate
IUPAC:	(7R)-7-[[[(2Z)-2-(2-amino-1,3-thiazol-5-yl)-2-methoxyiminoacetyl]amino]-3-(6,7-dihydro-5H-cyclopenta[b]pyridin-1-ium-1-yl)methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate;sulfuric acid
Synonyms:	HR 810 sulfate
CAS Number:	98753-19-6
Molecular Formula:	$C_{22}H_{22}N_6O_5S_2 \cdot H_2SO_4$
Molecular Weight:	612.66 g/mol

Section 4: First Aid Measures

4.1 Detailed First Aid Measures

Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin:	Immediately wash skin copiously with soap and water. Take victim immediately to hospital. Consult a physician.
Eye:	Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
Ingestion:	Wash out mouth with water. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.
Notes to Physician:	Treat symptomatically and supportively.

4.2 Most Important Symptoms And Effects, Either Acute Or Delayed

The most important known symptoms and effects are described in the labeling (see section 2). And /or in section 11.

4.3 Indication of immediate medical attention and special treatment needed

Not available

Section 5: Fire Fighting Measures

5.1 Conditions of flammability:

Not flammable or combustible.

5.2 Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.3 Specific hazards arising from the chemical

During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Carbon Oxides, Nitrogen Oxides (NO_x), Sulfur Oxides

5.4 Specific protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up:

Soak up with absorbent material, discard.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Always wear personal protective equipment (PPE, see section 8).

7.2 Conditions for safe storage, including and incompatibilities:

Keep container tightly closed.

Store at <4°C.

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters:

Contains no substances with occupational exposure limit values.

8.2: Appropriate engineering controls:

Contains no substances with occupational exposure limit values.

8.3 Personal Protective Equipment (PPE):

Eye/Face Protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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).

Other Protective Clothing or Equipment: Wear appropriate protective clothing to prevent exposure.

Section 9: Physical and Chemical Properties

9.1 General chemical and physical properties

Appearance:	White crystalline powder
Odor:	Not Available
Odor Threshold:	Not Available
pH:	(2% in water) 1.3-2.5
Melting Point:	198-202°C
Freezing Point:	Not Available
Boiling Point/Range:	Not Available
Flash Point:	Not Available
Evaporation Rate:	Not Available
Lower Explosion Limit:	Not Available
Upper Explosion Limit:	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Relative Density:	Not Available
Solubility:	Freely soluble in water
Partition Coefficient	

n-octanol/water: Not Available
Auto-Ignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available

Section 10: Stability and Reactivity Data

10.1 Reactivity:

Not available

10.2 Chemical Stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

Not available.

10.4 Conditions to avoid:

Incompatible materials.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon Oxides, Nitrogen Oxides (NOx), Sulfur Oxides

Section 11: Toxicological Information

11.1 Toxicological effects

Acute toxicity:

Cefpirome Sulfate	Oral:	LD ₅₀ (Rat) = >8,000 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Convulsions or effect on seizure threshold. Respiration: Respiratory depression
Cefpirome Sulfate	Oral:	LD ₅₀ (Rat) = 16,200 mg/kg
Cefpirome Sulfate	Intraperitoneal:	TD _{Lo} (Rat) = 36,000 mg/kg/90D-I Remarks: Kidney, Ureter, Bladder: Changes in bladder weight. Blood: Changes in serum composition (e.g. TP, bilirubin, cholesterol). Changes in erythrocyte (RBC) count.
Cefpirome Sulfate	Intraperitoneal:	LD ₅₀ (Rat) = 5,800 mg/kg

Cefpirome Sulfate	Intraperitoneal:	TD _{Lo} (Monkey) = 45,000 mg/kg/90D-I Remarks: Kidney, Ureter, Bladder: Other changes in urine composition. Blood: Changes in serum composition (e.g. TP, bilirubin, cholesterol). Nutritional and Gross Metabolic: Weight loss or decreased weight gain
Cefpirome Sulfate	Intraperitoneal:	TD _{Lo} (Monkey) = 75,200 mg/kg/26W-I Remarks: Kidney, Ureter, Bladder: Other changes in urine composition. Changes in bladder weight. Blood: Changes in erythrocyte (RBC) count.
Cefpirome Sulfate	Intraperitoneal:	LD ₅₀ (Mouse) = 3,850 mg/kg
Cefpirome Sulfate	Intravenous:	LD ₅₀ (Rat) = 1,900 mg/kg
Cefpirome Sulfate	Intravenous:	LD ₅₀ (Mouse) = 2,400 mg/kg
Cefpirome Sulfate	Subcutaneous:	LD ₅₀ (Rat) = >10,000 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Convulsions or effect on seizure threshold Lungs, Thorax or Respiration: Respiratory depression

Skin corrosion/irritation:

Not 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.

Germ cell mutagenicity:

Not available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal

to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human 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:

Intraperitoneal TD_{LO} (Female Rat) - 7-17 days after conception: 8,800 mg/kg
Remarks, Effects on Embryo or Fetus: Extra-embryonic structures (e.g. placenta, umbilical cord). Fetotoxicity (except death, e.g. stunted fetus). Physical effects on newborn

Intravenous TD_{LO} (Female Rat) - 7-17 days after conception: 8,800 mg/kg
Remarks, Maternal Effects: Other effects. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g. stunted fetus)

STOT-single exposure:

Not available.

STOT-repeated exposure:

Not available.

Aspiration hazard:

Not available.

Likely routes of exposure:

Respiratory organs, mouth, skin, and eyes.

Symptoms of exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information:

RTECS: UW8970000

Section 12: Ecological Information

12.1 Toxicity:

Not available.

12.2 Persistence and degradability:

Inherent biodegradability.

12.3 Bioaccumulative potential:

Does not bioaccumulate.

12.4 Mobility in soil:

Not available.

12.5 Other adverse effects:

Harmful to aquatic life. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Section 13 Disposal Considerations

Dispose of product in accordance with local rules and regulations.

Section 14: Transport Information

14.1 US Department of Transportation (DOT)

This material is considered to be non-hazardous for transport.

14.2 International Maritime Dangerous Goods (IMDG):

This material is considered to be non-hazardous for transport.

14.2 International Air Transportation Association (IATA)

This material is considered to be non-hazardous for transport.

Section 15: Regulatory Information

SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

SARA 313: 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:

No SARA Hazards.

Massachusetts Right To Know Components:

Cefpirome Sulfate

CAS - No.

98753-19-6

Pennsylvania Right To Know Components:

Cefpirome Sulfate

CAS - No.

98753-19-6

New Jersey Right To Know Components:

Cefpirome Sulfate

CAS - No.

98753-19-6

California Prop. 65 Components:

This product does not contain any chemical known to the State of California to cause cancer, birth, or any other reproductive defects.

Section 16: Other Information

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including

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