Safety Data Sheet

Section 1: Chemical Identification

Chemical Name: 5-[(3,4,5-trimethoxyphenyl)methyl]pyrimidine-2,4-diamine
Catalog Number: T-350-5; T-350-25; T-350-100
Recommended use: Trimethoprim is a broad spectrum antibiotic used extensively against bacteria responsible for urinary tract infections. This product is not for use in humans. It is intended for research purposes only.
Distributed by: Gold Biotechnology, Inc.
1328 Ashby Rd.
St. Louis, MO 63132
Phone: (314) 890-8778
Fax: (314) 890-0503
Email: contactgoldbio86@goldbio.com
Emergency Phone: (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

Section 2: Hazardous Information

GHS Classification
This product is not subject to hazardous classification

OSHA Hazards
No known hazards.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May be harmful if absorbed through skin. May cause irritation.
Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

HMIS Classification
Health hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Section 3: Composition/Information on Ingredients

Identity: 5-[(3,4,5-trimethoxyphenyl)methyl]pyrimidine-2,4-diamine
Synonyms: Trimethoprim, Proloprim, Trimpe, Bactramin, Monotrim, Monotrimin, Syraprim, Trimopan
CAS number: 738-70-5
Molecular Formula: C_{14}H_{18}N_{4}O_{3}
Section 4: First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration.

Skin: Immediately wash skin with water.

Eye: Flush eyes with water as a precaution.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5: Fire Fighting Measures

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides.

Section 6: Accidental Release Measures

Personal precautions
Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2-8 °C
Keep in a dry place.

Section 8: Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Appropriate engineering controls: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Personal Protective Equipment (PPE)

Eye/Face Protection: Avoid contact with eyes, wear safety goggles or face shield tested under government standards.

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other Protective Clothing or Equipment: Maintain general industrial hygiene practice. Wash skin thoroughly and remove contaminated clothing after handling.

Section 9: Physical and Chemical Properties

Appearance: Powder
Odour: Not available
Odour Threshold: Not available
pH: Not available
Melting Point: 199-203 °C
Freezing Point: Not available
Boiling Point/Range: 526.0 °C
Flash Point: 271.9 °C
Evaporation Rate: Not available
Flammability: Not available
Lower Explosion Limit: Not available
Upper Explosion Limit: Not available
Vapour Pressure: Not available
Vapour Density: Not available
Relative Density: Not available
Solubility:
  - Water: 0.4 mg/mL
  - Propylene glycol: 25.7 mg/mL
  - Methanol: 12.1 mg/mL
  - DMAC: Freely soluble
  - Chloroform: 18.2 mg/mL
  - Benzyl alcohol: Freely soluble

Partition Coefficient:
  - n-octanol/water: Not available

Auto-Ignition Temperature: Not available

Section 10: Stability and Reactivity Data

Reactivity: Not available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Not available.

Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides.
Other decomposition products - no data available

Section 11: Toxicological Information

Acute toxicity: 
Not available.

Skin corrosion/irritation: 
Not available.

Respiratory or skin sensitization: 
Not available.

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 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: 
Reproductive toxicity-rat-Oral
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). 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.

Section 12: Ecological Information

Toxicity: 
Oral: \( LD_{50} \) (Rat) = >5,300 mg/kg
\( LD_{50} \) (Mouse) = 2,764 mg/kg
Intraperitoneal: \( LD_{50} \) (Rat) = 500 mg/kg
\( LD_{50} \) (Mouse) = 400 mg/kg
Subcutaneous: \( \text{LD}_{50} \) (Rat) = >5 mg/kg
\( \text{LD}_{50} \) (Mouse) = 5 mg/kg
Intravenous: \( \text{LD}_{50} \) (Mouse) = 132 mg/kg

**Persistence and degradability:**
Not available.

**Bioaccumulative potential:**
Not available.

**Mobility in soil:**
Not available.

**Other adverse effects:**
Not available.

### Section 13: Disposal Considerations

Observe all federal, state, and local environmental regulations.

### Section 14: Transport Information

**US Department of Transportation (DOT)**
This material is considered to be non-hazardous for transport.

**International Maritime Dangerous Goods (IMDG)**
This material is considered to be non-hazardous for transport.

**International Air Transport Association (IATA)**
This material is considered to be non-hazardous for transport.

### Section 15: Regulatory Information

**OSHA Hazards:**
No known OSHA hazards

**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:**
No Components Listed

**Pennsylvania Right To Know Components:**
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**New Jersey Right To Know Components:**
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California Prop. 65 Components:
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 without limitation, liability for injury to the user or third-party persons.

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