

SAFETY DATA SHEET (SDS)

Fenbendazole Tablets – Research Use Only

Revision Date: 16 November 2025

1. Identification

Product Name: Fenbendazole Tablets (Research Grade)

Synonyms: Fenbendazole; methyl N-[6-(phenylthio)-1H-benzimidazol-2-yl]carbamate

CAS Number: 43210-67-9

Recommended Use: Laboratory research purposes only

Restrictions on Use: Not for human consumption. Not for veterinary use. Not for therapeutic, diagnostic, or clinical applications.

Manufacturer/Supplier:

RT Labs LLC

1402 Broadway ST #105 Longview, WA 98632

503-395-7388

Emergency Contact: RT Labs

2. Hazard(s) Identification

Classification (GHS):

- Acute Toxicity – Oral (Category 4)
- Specific Target Organ Toxicity – Repeated Exposure (Category 2, liver)
- Hazardous to the Aquatic Environment – Chronic (Category 2)

Signal Word: Warning

Hazard Statements:

- H302: Harmful if swallowed
- H373: May cause damage to organs (liver) through prolonged or repeated exposure
- H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

- P260: Do not breathe dust
 - P264: Wash hands thoroughly after handling
 - P270: Do not eat, drink, or smoke when using this product
 - P273: Avoid release to the environment
 - P314: Get medical advice if you feel unwell
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3. Composition / Information on Ingredients

Component | CAS Number | Concentration

Fenbendazole | 43210-67-9 | **37.0% w/w**

Excipients (microcrystalline cellulose, magnesium stearate, silica) | Proprietary | 63.0%

4. First-Aid Measures

Inhalation: Move person to fresh air. Seek medical attention if symptoms occur.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if symptoms develop.

Symptoms: Gastrointestinal upset, nausea, mild liver enzyme elevations with prolonged exposure.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, CO₂, dry chemical, foam

Specific Hazards: May emit carbon oxides, nitrogen oxides, and sulfur oxides when burned

Protective Equipment: Self-contained breathing apparatus (SCBA)

6. Accidental Release Measures

Personal Precautions:

- Wear gloves and protective eyewear
- Avoid generating dust

Environmental Precautions:

- Prevent entry into waterways, drains, and soil

Cleanup Methods:

Collect tablets manually to avoid dust formation. Dispose according to local regulations.

7. Handling and Storage

Handling:

- Use in a well-ventilated laboratory
- Avoid inhalation and ingestion
- Follow standard laboratory safety practices

Storage:

- Store at 20–25°C
 - Protect from light and moisture
 - Keep container tightly closed
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8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Not established

Engineering Controls:

- Local exhaust ventilation recommended

Personal Protective Equipment (PPE):

- Lab coat
 - Nitrile gloves
 - Safety glasses
 - Dust mask if tablet fragmentation occurs
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9. Physical and Chemical Properties

Property | Value

Appearance | Off-white to light tan tablet

Odor | Odorless

Melting Point | ~233°C (active ingredient)

Solubility | Practically insoluble in water

Molecular Formula | C₁₅H₁₃N₃O₂S

Molecular Weight | 299.35 g/mol

10. Stability and Reactivity

Stability: Stable under recommended storage conditions

Conditions to Avoid: Excess heat, moisture, light

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

11. Toxicological Information

Acute Toxicity (oral, rat LD50): >10,000 mg/kg (literature value)

Target Organs: Liver (prolonged exposure)

Chronic Effects: Prolonged exposure may affect liver function

Carcinogenicity: Not classified by IARC

12. Ecological Information

Ecotoxicity: Toxic to aquatic organisms with long lasting effects

Persistence: Moderately persistent in soil

Bioaccumulation: Low to moderate potential

13. Disposal Considerations

Dispose of contents and container in accordance with local, regional, national, and international regulations. Do not release into the environment.

14. Transport Information

UN Number: Not regulated in small research quantities

Environmental Hazard: Yes (aquatic toxicity)

Transport Class: Not classified as dangerous goods in finished tablet form (verify locally)

15. Regulatory Information

This product is labeled For Research Use Only (RUO).

Not approved by regulatory authorities such as the U.S. Food and Drug Administration for human or veterinary use in this form.

Users are responsible for compliance with applicable chemical handling regulations.

16. Other Information

This SDS is intended for laboratory research settings only.
The information provided is believed to be accurate but is not guaranteed.
Users are responsible for determining the suitability of this material for their specific application.