



# FENGCHEN GROUP CO., LTD.

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## MATERIAL SAFETY DATA SHEET

### SECTION 1. PRODUCT IDENTIFICATION

**Product Name:** ALBENDAZOLE  
**Chemical Formula:** C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub>S  
**Synonym:** Methyl5-(propylthio)-2-benzimidazolecarbamate  
**Company Identification:** FENGCHEN GROUP CO., LTD.

Telephone No. +86-18678461007

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent by Weight
54965-21-8	Albendazole	100.0 %

### SECTION 3. HAZARD IDENTIFICATION

Emergency Overview: Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.

Chronic: Effects may be delayed.

Mutagenic effects: Mutagenic for bacteria and/or yeast.

Teratogenic effects: Classified POSSIBLE for human.

Developmental toxicity: Classified Reproductive system/toxin/female, development toxin [POSSIBLE].

## **SECTION 4. FIRST AID**

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupful of milk or water. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Treat symptomatically and supportively.

## **SECTION 5. FIRE AND EXPLOSION**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation

## **SECTION 7. HANDLING AND STORAGE**

Handling:

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Wash clothing before reuse. Avoid breathing dust.

Storage:

Preserve in tight containers, and store at controlled room temperature.

## **SECTION 8. PERSONAL PROTECTION/EXPOSURE CONTROLS**

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety Shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid.

Color: White to faintly yellowish.

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Molecular Formula:  $C_{12}H_{15}N_3O_2S$

Molecular Weight: 265.33

**SECTION 10. REACTIVITY/STABILITY**

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials: Acids, bases, reducing agents, strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS#: 54965-21-8 FD1100000

LD50/LC50: CAS# 54965-21-8: Oral, mouse: LD50 = 1500 mg/kg; Oral, rat: LD50 = 2400 mg/kg.

Carcinogenicity: Methyl 5-propylthio-2-benzimidazolecarbamate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

## SECTION 12. ECOLOGICAL INFORMATION

Not available

## SECTION 13. DISPOSAL

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14. TRANSPORTATION

IATA

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.

IMO

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing Group: Not available.

RID/ADR

Shipping Name: Not available.

Hazard Class: Not available.

UN Number: Not available.

Packing group: Not available

## SECTION 15. REGULATORY INFORMATION

Federal and State Regulations: No products were found.

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the

European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R61- May cause harm to the unborn child. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27- Take off immediately all contaminated clothing. S28- After contact with skin, wash immediately with plenty of water. S36/39- Wear suitable protective clothing and eye/face protection.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2



Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

#### **SECTION 16 - ADDITIONAL INFORMATION**

This document is intended only as a guide to the appropriate precautionary handling of material by a person trained in chemical handling. The user is responsible for determine the precautions & dangers of this chemical for his or her particular application depending on usage. Adequate protective clothing, including eye / face guards, approved respirators must be used to avoid contact with the material or breathing chemical vapors / fumes. Exposure to this product may cause adverse health effects.

**READ ALL PRECAUTIONARY INFORMATIONS.**

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