

MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company

1.1 Product Identification

Chemical Name: Pterostilbene

CAS Number: 537-42-8

Molecular Formula: C₁₆H₁₆O₃

Molecular Weight: 256.30 g/mol

1.2 Recommended Use

laboratory research.

1.3 Supplier Information

Company name: Shenzhen JaYoo Biotech Co., Ltd

Add.: Unit 7C92B, Building 213, Tairan Technology Park, No. 113 Tairan 4th Road Tian'an Community, Shatou Subdistrict, Futian District, Shenzhen, China

Contact phone number: 13870773083

1.4 Emergency Telephone Number

Emergency Response: 13870773083

Section 2: Hazards Identification

2.1 GHS Hazard Classification

Eye Damage, Category 1

Chronic Hazardous to Aquatic Environment, Category 2

2.2 GHS Label Elements

Signal Word: DANGER

Hazard Statements:

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P280: Wear eye protection, face protection and protective gloves.

P273: Avoid release to the environment.

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes.

Remove contact lenses if easy to do. Continue rinsing.

P310: Immediately call a poison center or doctor.

P391: Collect spillage.

P501: Dispose of contents and container in accordance with local regulations.

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2.3 Other Hazards

No additional hazards identified under normal handling conditions.

Section 3: Composition

Pterostilbene ≥99%

Section 4: First Aid Measures

4.1 Inhalation

Remove the person to fresh air. Keep respiratory tract unobstructed. Seek medical attention if cough, dizziness or breathing discomfort occurs.

4.2 Skin Contact

Wash contaminated skin thoroughly with plenty of running water and neutral soap. Remove contaminated clothing. Seek medical help if irritation occurs.

4.3 Eye Contact

Immediately flush eyes with large amounts of clean running water for at least 15 minutes. Seek medical treatment urgently to avoid permanent eye damage.

4.4 Ingestion

Rinse mouth with clean water. Do not induce vomiting. Drink proper amount of warm water and seek medical advice in time.

Section 5: Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Water mist, dry powder, carbon dioxide (CO₂), alcohol-resistant foam.

5.2 Special Hazards

Thermal decomposition may produce harmful toxic gases: carbon monoxide, carbon dioxide.

5.3 Protection for Firefighters

Wear full-body fire protective clothing and self-contained breathing apparatus (SCBA). Avoid inhalation of combustion smoke.

Section 6: Accidental Release Measures

6.1 Personal Precautions

Avoid dust inhalation and direct contact with eyes and skin. Wear dust mask, safety goggles and nitrile protective gloves.

6.2 Environmental Precautions

Prevent leakage into rivers, lakes, sewers and soil. Prohibit random discharge to protect aquatic ecology.

6.3 Clean-up Methods

Collect spilled powder by dry sweeping or vacuuming, place into sealed clean containers. Clean the residual area with wet wiping method.

Section 7: Handling and Storage

7.1 Handling Precautions

Operate in a well-ventilated workplace. Minimize dust generation. Avoid long-term repeated contact with skin and eyes.

7.2 Storage Conditions

Store in a cool, dry, dark and ventilated warehouse.

Seal tightly, keep away from light, moisture, high temperature and strong oxidants.

Section 8: Exposure Controls / Personal Protection

8.1 Exposure Limit

No occupational exposure limit values established for this substance.

8.2 Personal Protective Equipment

Respiratory Protection: Dust-proof mask when dust is generated.

Eye Protection: Impact-resistant safety goggles or face shield.

Hand Protection: Chemical-resistant nitrile gloves.

Body Protection: Standard work uniform.

Section 9: Physical and Chemical Properties

Appearance: White to off-white crystalline powder

Odor: Slight characteristic odor

Melting Point: 89–92 °C

Solubility: Insoluble in water; soluble in ethanol, methanol, DMSO

Flash Point: 208 °C (approx.)

Stability: Slightly sensitive to air and light

Section 10: Stability and Reactivity

10.1 Stability

Stable under normal transportation, handling and storage conditions.

10.2 Incompatible Materials

Strong oxidizing agents, strong alkaline substances.

10.3 Hazardous Decomposition Products

Carbon oxides and organic harmful fumes under high-temperature combustion.

Section 11: Toxicological Information

Acute Oral LD50 (rat): > 5000 mg/kg, low toxicity.

Skin Irritation: Slight irritation to sensitive skin.

Eye Irritation: Causes eye damage.

Mutagenicity: No mutagenic effect.

Carcinogenicity: Not classified as carcinogen.

Section 12: Ecological Information

Toxic to aquatic organisms, with long-term adverse ecological effects.

No complete ecological toxicity data available.

Do not allow the product to enter surface water and groundwater.

Section 13: Disposal Considerations

Waste materials shall be disposed in accordance with local environmental protection laws and industrial waste management regulations.

Do not mix with domestic waste. Residues shall be treated by professional waste disposal agencies.

Section 14: Transport Information

This product is non-dangerous goods for international transportation.

UN Number: Not applicable

Proper Shipping Name: Not regulated

Transport Hazard Class: None

Packing Group: None

No special transportation restrictions.

Section 15: Regulatory Information

Compliant with global food and cosmetic raw material regulations.

Allowed for dietary supplement use in USA, EU and China.

Meets industrial safe production and chemical management requirements.

Section 16: Other Information

This SDS is compiled based on authoritative chemical databases and industry standard data.

All safety guidance is for reference only.

Operators must comply with local safety and environmental protection laws.