



Hangzhou Tianlong Biotechnology Co., Ltd.

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MATERIAL SAFETY DATA SHEET

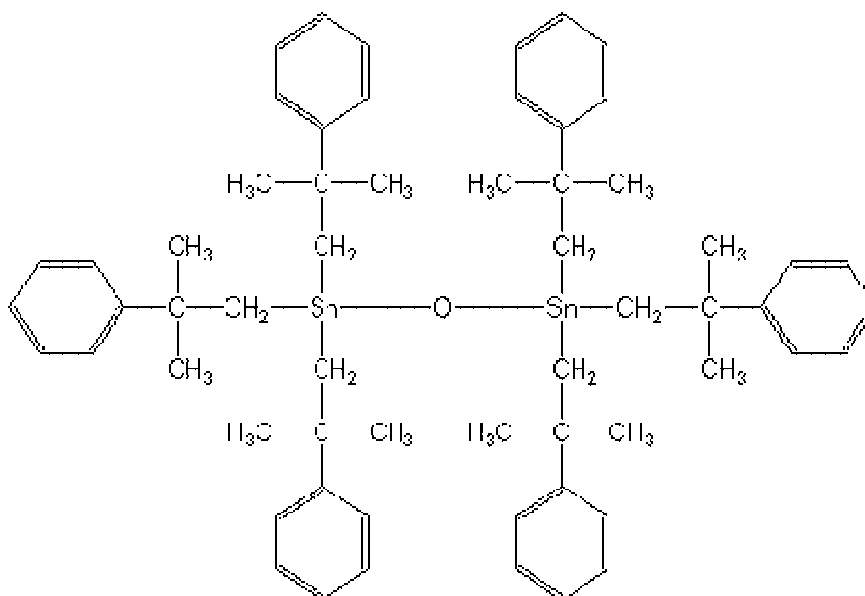
1. Chemical Product and company Identification

Product Name: Fenbutatin Oxide

Molecular Formula: $C_{60}H_{78}OSn_2$

Molecular Weight: 1052.68

Structural Formula:



Chemical Name: Bis[tris-(2-methyl-2-phenylpropyl)tin] oxide

CAS No.: 13356-08-6

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Fenbutatin Oxide	13356-08-6	95.0
Other ingredients		5.0

3. Hazards Identification

Danger! Fatal if inhaled. Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful, if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid handling the inner bag as moisture will cause breakage.

4. First Aid Measures

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If On Skin Or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If In Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing. Call a poison control center or doctor for further treatment advice.

5. Fire-Fighting Measures

Extinguishing Media: Water Spray, Foam, Dry Chemical, CO₂.

Fire Fighting Instructions: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Run-off from fire control may be a pollution hazard. If area is heavily exposed to fire and conditions permit, let fire burn itself out since water may increase the contamination hazard. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control run-off.

6. Accidental Release Measures

Safeguards (Personnel):

Note: Review Fire-Fighting Measures and Handling (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up. Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment: Follow applicable Federal, State/Provincial and Local

laws/ regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up: Shovel or sweep up. Dispose of in an approved container.

7. Handling and Storage

Handling (Personnel)

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Stored in a cool, ventilation of the treasury. Away from fire, heat source. To prevent direct sunlight. Packing seal. Should be stored separately with oxidant, avoid mixing reservoir. Equipped with the appropriate variety and quantity of fire equipment. Storage areas should be equipped with appropriate materials asylum leakage.

8. Exposure Controls/Personal Protection

Engineering Controls: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal Protective Equipment: Applicators and other handlers must wear: Coveralls over short sleeve shirt and short pants. Socks and chemical-resistant shoes. Chemical-resistant gloves (category A). Protective eyewear (goggles, face shield, or safety glasses). Chemical-resistant headgear.

9. Physical and Chemical Properties

Appearance: White crystal powder

Melting point: 138-139°C

Vapor pressure: 6.7×10^{-6} Pa

Solubility: in water 0.005mg/l

In organic solvent: acetone 6g/l , methylene chloride 380g/l Benzene 140g/l

Specific Gravity: >1

Bulk Density (Loose): 14 lb/cu ft

Bulk Density (Packed): 20 lb/cu ft

10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials: None reasonably foreseeable.

Decomposition: Decomposition will not occur.

Polymerization: Polymerization will not occur.

11. Toxicological Information

Acute oral LD50: rat 2631mg/kg

Mouse 1450mg/kg

Dog >1500mg/kg

Acute dermal LD50 : rabbit >2000mg/kg

Rat >1000mg/kg

Acute inhalation LC50 : rat 1.83mg/l

Skin irritation : irritant

Eye irritation : irritant

Ingestion of the active ingredient, Fenbutatin, produces nonspecific effects such as weight loss and irritation, minor changes in blood chemistry, and changes in kidney and testes weights. No pathological organ changes have been reported.

12. Ecological Information

Aquatic Toxicity: 96 hour LC50 - Bluegill sunfish: 0.0048 mg/L.

96 hour LC50 - Rainbow trout: 0.0066 mg/L

Bee oral LD50: 100µg/bee

13. Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Local regulations. Do not flush to surface water or sanitary sewer system. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Local law.

14. Transport Information

UN NO.:2588

Hazard Class: 6.1

Packing Group: II

15. Regulatory Information

Risk phrase: Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

Toxic to aquatic organisms.

Safe phrase: Keep locked up and out of reach children.

Keep away from food, drink and animal feeding stuffs.

Do not breathe vapour/spray.

Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

Avoid release to the environment.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this

MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.