



Hangzhou Tianlong Biotechnology Co., Ltd.

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MATERIAL SAFETY DATA SHEET

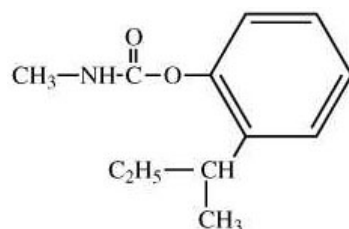
1. Chemical Product and company Identification

Product Name: Fenobucarb

Molecular Formula: C₁₂H₁₇NO₂

Molecular Weight: 207.3

Structural Formula:



Chemical Name:

(2-sec-butylphenyl methylcarbamate (IUPAC)

CAS No.: 3766-81-2

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Fenobucarb	3766-81-2	97.0
Other ingredients		3.0

3. Hazards Identification

Component	Symbol	R phrases
Fenobucarb	Xn;N	R22-50-53

4. First Aid Measures

Skin: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

Eyes: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Inhalation: Move affected person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

Notes to physician: No specific antidote if ingested. Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media

To be used: Water, carbon dioxide, dry chemical and foam.

Don't use: Not applicable

Particular risk: None

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: Prevent the contamination of the floor and the beds of water.

6. Accidental Release Measures

Personal cautions: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Cleaning methods

EX: The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

Environmental cautions

EX: prevent the contamination of the floor and beds of water.

7. Handling and Storage

Handling: Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: Adequate ventilation.

9. Physical And Chemical Properties

Appearance: Light yellow oily liquid with slight special odor;

Melting point: 26.5~31°C.

Density: 1.035 (30°C);.

Water solubility: 420mg/L (20°C)

Other solubility: In acetone, benzene, chloroform, xylene, toluene >1 (all in kg/kg, room temperature).

PH value: 5.0~9.0;

Flash point: non-inflammable;

Ignition temperature: not applicable

KowlogP=2.79

10. Stability And Reactivity

Conditions to avoid: flame, fire and high temperature.

Products to avoid: incompatible with alkaline and strong acid;

Thermal decomposition: N/A;

Hazardous decomposition products: nitride, chloride, carbon dioxide and so on.

Hazardous reaction: Not applicable

11. Toxicological Information

Contact with the skin: Slight irritant to skin

Contact with the eyes: Slight irritant to eye.

Signs and Symptoms of Poisoning: No poisoning symptoms.

Effects for chronic toxicity: Recent study shows that this pesticide (2 y) for rats 4.1 mg/kg b.w. daily (100 mg/kg diet); no carcinogenicity, no teratogenicity, no mutagenicity.

Sensitisation: Not a skin sensitiser (guinea pigs);

12. Ecological Information

Aquatic organisms:

LC₅₀ (96 h) for rainbow trout 211, golden orfe 237 mg/l.

Bird: Ac ute oral LD₅₀ for bobwhite quail 152, Japanese quail 31mg/kg;

Dietary LC₅₀ (5 d) for bobwhite quail 2225, and mallard ducks >5000 mg/kg.

Other Animals (Non-target species)

Bee: Imidacloprid is highly toxic to bees if used as a foliar application, especially during flowering, but is not considered a hazard to bees when used as a seed treatment.

Earth worms: LC₅₀ for Eisenia foetida 10.7mg/kg dry soil;

13. Disposal Considerations

Material which can not be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

14. Transport Information

Class: 6.1

UN NO.: 2756

15. Regulatory Information

Symbol: T

Risk phrases:

R23: Harmful if swallowed.

R25: Toxic if swallowed.

R48: Very toxic in contact with skin.

Safety phrases:

S2: Keep locked up

S7: Keep container tightly closed.

S9: Keep container in a well-ventilated place

S13: Keep away from food, drink and animal feeding stuffs

S36: Wear suitable protective clothing

S39: Wear eye/face protection

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.