



**Hangzhou Tianlong Biotechnology Co., Ltd.**

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

## MATERIAL SAFETY DATA SHEET

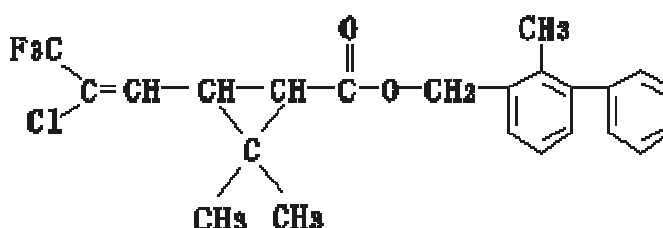
### 1. Chemical Product and company Identification

Product Name: Bifenthrin

Molecular Formula:  $C_{23}H_{22}ClF_3O_2$

Molecular Weight: 422.86

Structural Formula:



Chemical Name: 3-(2-chloro-3,3,3-trifluoropropyl-1-alkenyl)-2,2-dimethyl cyclopropane carboxylic-methyl-3-methyl-3-phenyl benzyl ester  
CAS No.: 82657-04-3

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Bifenthrin	82657-04-38	95.0
Other ingredients		5.0

### 3. Hazards Identification

Eye contact: Practically non-irritating.

Skin contact: This product is practically non-toxic.

Inhalation: The product is harmful by inhalation.

Chronic: No data available.

### 4. First Aid Measures

If swallowed – Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

If in eyes - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first five minutes, then continue rinsing. Call a poison control center or doctor for treatment

advice.

If on skin- Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled – Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Note – Have the product container or label with you when calling a poison control center or doctor or going for treatment.

## **5. Fire-Fighting Measures**

Extinguishing media: Use foam, water fog, CO<sub>2</sub>, or dry chemical

Fire /explosion hazards: Slightly combustible. This material may support combustion at elevated temperatures.

Fire fighting procedures: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride.

## **6. Accidental Release Measures**

Clean-up procedure: Isolate and post spill area. Wear protective clothing and personal protective equipment. Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with a noncombustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal. To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol. Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary.

## **7. Handling And Storage**

Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## **8. Exposure Controls/Personal Protection**

Personal Protective Equipment:

To avoid eye and skin contact, wearing the following personal protective clothing and equipment is recommended:

Eyes: Safety goggles or face shield

Clothing: Cotton overalls buttoned to the neck and wrist and a washable hat.

Gloves: Elbow length PVC gloves.

Respiratory: Respiratory protection is not normally required. If airborne

concentrations are likely to exceed the exposure standard above, an AS/NZS 1715/1716 approved respirator should be worn.

Other: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, goggles or face shield and contaminated clothing.

## 9. Physical and Chemical Properties

Appearance: Light brown solid

Melting Point: 57-64°C.

Vapour Pressure:  $2.4 \times 10^{-2}$  Pa (25°C)

Solubility: Water 0.1 mg / L, 1.25 Kg / L and acetone, soluble in chloroform, dichloromethane, ethyl ether, toluene

## 10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Excessive heat and fire.

Hazardous polymerization: Does not occur.

## 11. Toxicological Information

Oral LD <sub>50</sub> (rat)	-	54.5 mg/kg
Dermal LD <sub>50</sub> (rabbit)	-	> 2000 mg/kg
Eye Irritation	-	no irritation
Skin Irritation	-	no irritation
Sensitizer (guinea pig)-		Not a sensitizer
No teratogenic, carcinogenic, mutagenic effect.		

## 12. Ecological Information

Aquatic toxicity:

Fish: LC50 (96h) for bluegill sunfish 0.00035, rainbow trout 0.00015 mg/l

Daphnia: LC50 (48h) 0.00016 mg/l. low solubility in water and high affinity for soil contribute to produce little impact in aquatic systems under field conditions.

Terrestrial toxicity:

Birds: Acute oral LD50 for bobwhite quail 1800, mallard ducks 2150 mg/kg. dietary LC50 (8d) for bobwhite quail 4450, mallard ducks 1280 mg/kg diet.

Bees: LD50 (oral) 0.1 ug/bee; (contact) 0.01462 ug/bee.

## 13. Disposal Considerations

Product disposal: Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change,

the appropriate agencies should be contacted prior to disposal.

Container disposal: Non-returnable containers which held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard.

#### **14. Transport Information**

Class: 6.1

UN No.: 2588

Packing group: III

#### **15. Regulatory Information**

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.