



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

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

## MATERIAL SAFETY DATA SHEET

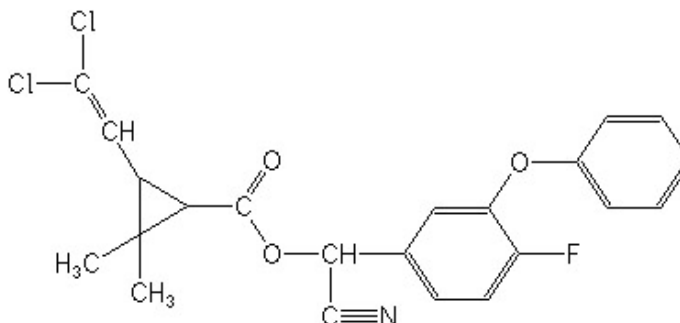
### 1. Chemical Product and company Identification

Product Name: Beta-cyfluthrin

Molecular Formula:  $C_{22}H_{18}Cl_2FNO_3$

Molecular Weight: 434.3

Structural Formula:



Chemical Name: Cyclopropanecarboxylic acid,  
3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano (4-fluoro-3-phenoxyphenyl)methyl  
ester

CAS No.: 68359-37-5

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Beta-cyfluthrin	68359-37-5	95.0
Other ingredients		5.0

### 3. Hazards Identification

May irritate eyes and skin. Not flammable

### 4. First Aid Measures

Eye: Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: 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 directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation: Move 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.

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

Suitable Extinguishing Media: Water, dry chemical

Fire Fighting Instructions: Keep out of smoke. Stay upwind. Do not allow run-off from fire fighting to enter drains or water courses. Equipment or materials involved in pesticide fires may become contaminated. Wear self-contained breathing apparatus and protective suit.

## **6. Accidental Release Measures**

Land Spill or Leaks: Avoid dust formation. Avoid breathing dust. Avoid contact with skin. Use recommended protective equipment while carefully sweeping up spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways.

## **7. Handling And Storage**

Handling: Handle and open container in a manner as to prevent spillage. Avoid contamination of feed and foodstuffs. Foods should be removed or covered before treatments. Food processing surfaces and equipment must be covered during treatment or cleaned with a suitable detergent and rinsed with potable water before reuse.

Storing: Do not contaminate water, food, or feed by storage or disposal. Do not freeze. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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

Engineering Controls: Maintain exposure levels below the exposure limit

through the use of general and local exhaust ventilation.

Eye/Face Protection: Goggles

Hand Protection: Suitable chemical resistant gloves.

Body Protection: Wear long-sleeved shirt and long pants and shoes plus socks.

## 9. Physical and Chemical Properties

Appearance: White powder with a faint odor

PH: 9.1(as a dispersion)

Bulk Density: 16-29 lbs/cu ft

Melting Point: antimer II:81°C antimer IV: 106 °C.

Vapour Pressure: antimer II:  $1 \times 10^{-5}$  mPa(20°C), antimer IV: $0.9 \times 10^{-2}$ mPa(20°C).

Solubility: soluble in water at 20°C is 0.002mg/L, antimer II soluble in hexane is 2-5g/l, antimer IV is 1-2g/l, in methylene dichloride >200g/l.

## 10. Stability and Reactivity

Stability: This is a stable material.

Hazardous Polymerization: Will not occur.

Incompatibilities: Alkaline media; reacts with methanol; incompatible with many disinfectants.

Instability Conditions: Not established

Decomposition Products: Not established

## 11. Toxicological Information

Oral: LD50: Male rat: 960 mg/kg -- Female rat: 1150 mg/kg

Dermal: LD50: Male and Female Rat: >2000 mg/kg

Inhalation: LC50: 4 hr exposure to Liquid Aerosol: Male and Female

## 12. Ecological Information

This product is extremely toxic to fish and aquatic invertebrates, and is highly toxic to bees. Bayer will provide a summary of specific data upon written request. As with any pesticide, this product should be used according to label directions and should be kept out of streams, lakes and other aquatic habitats of concern

## 13. Disposal Considerations

Waste Disposal Method: Follow container label instructions for disposal of wastes generated during use. In other situations, bury in an approved landfill or burn in an incinerator approved for pesticide destruction.

Empty Container Precautions: Do not reuse container without written permission and instructions from Bayer. Empty, clean and dispose in accordance with state and local laws.

## 14. Transport Information

UN NO.: 3349

Class: 6.1

Packing group: III

## **15. Regulatory Information**

Safety phrases:

Keep locked up and out of the reach of children.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment.

Risk phrases:

Very toxic by inhalation and if swallowed

Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic 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.