



Hangzhou Tianlong Biotechnology Co., Ltd.

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MATERIAL SAFETY DATA SHEET

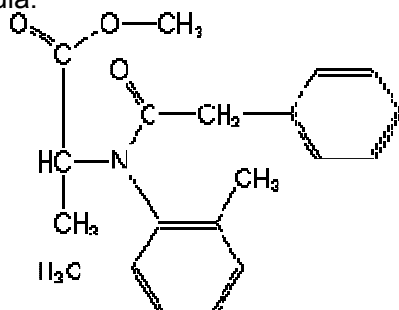
1. Chemical Product and company Identification

Product Name: Benalaxyl

Molecular Formula: $C_{20}H_{23}NO_3$

Molecular Weight: 325.4

Structural Formula:



Chemical Name:

Methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-DL-alaninate

CAS No.: 71626-11-4

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Benalaxyl	71626-11-4	95.0
Others ingredients		5.0

3. Hazards Summarizing

Routes of exposure:

Inhalation, ingestion, skin

Critical hazard to man: Dangerous by inhalation, in contact with skin and if swallow.

Critical hazard to environment: Hazardous to aquatic life.

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: Powder, water spray, carbon dioxide.

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: Colorless solid, with characteristic odour;

Melting point: 78~80°C.

Density: 1.27 (20°C);

Vapour Pressure: 0.67mPa(25°C)

Water solubility: Soluble in water;

Other solubility: Soluble in most organic solvents.

Acidity: ≤0.5% (Calculated as H₂SO₄);

Flash point: non-inflammable;

Ignition temperature: not applicable

10. Stability and Reactivity

Stability: Soluble in water 37mg/L, in acetone, chloroform, dimethylformamide >500g/kg at 25°C.

Conditions to avoid: flame, fire and high temperature.

Products to avoid: Incompatible with alkaline materials;

Thermal decomposition: Decomposes above 250°C under nitrogen;

Hazardous decomposition products: The substance decomposes on heating producing toxic fumes including nitrogen oxides.

Hazardous reaction: Not applicable

11. Toxicological Information

Acute oral LD₅₀: 4200mg/kg (rat); 680mg/kg (mouse)

Acute dermal LD₅₀ : >5000mg/kg (rat)

Contact with the skin: Not irritant to skin

Contact with the eyes: Not irritant to eye.

Acute Inhalation LC₅₀ (4h): 10mg/L;

Ingestion: not applicable;

Effects for chronic toxicity: NOEL (2 y) for rats 100mg/kg diet.

Non-carcinogenic, non-mutagenic, and non-teratogenic;

Sensitisation: not a skin sensitiser (guinea pigs);

12. Ecological Information

Aquatic organisms:

LC₅₀ (96 h) for rainbow trout 3.75, goldfish 7.6, guppies 7.0, carp 6.0 mg/l. Bird:

Acute oral LD₅₀ for mallard ducks>4500, bobwhite quail >5000, chickens

4600 mg/kg; Dietary LC₅₀ (5 d) for bobwhite quail and mallard ducks >5000 mg/kg.

Other Animals (Non-target species)

Bee: Non-toxic to bees; LD₅₀ >100 µg/bee;

Earth worms: LC₅₀ (48 h) for earthworms 0.0053 mg/cm²;

13. Disposal Considerations

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

14. Transport Information

Hazard Class: 9

UN No.: 3077

Packaging Group III

15. Regulatory Information

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible)

Use appropriate containment to avoid environmental contamination

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.