



Hangzhou Tianlong Biotechnology Co., Ltd.

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

MATERIAL SAFETY DATA SHEET

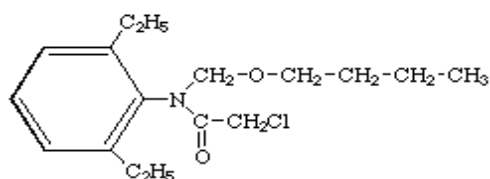
1. Chemical Product and company Identification

Product Name: Butachlor

Molecular Formula: C₁₇H₂₆ClNO₂

Molecular Weight: 311.5

Structural Formula:



Chemical Name: N-butoxymethyl-2-chloro-2', 6'-diethylacetanilide

CAS No.: 23184-66-9

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

Address: Room 1906, Fengqi Times Tower, No.338 Fengqi East Road, Hangzhou, China, 310020

Tel: 0086-571-87214516

Fax: 0086-571-87079476

2. Composition / Information on Ingredients

Composition	CAS No.	Content
Butachlor	23184-66-9	92.0
Other ingredients		8.0

3. Hazards Identification

More important danger for the man: none

Dangers for the environment: toxic to aquatic; low accumulation;

Physical-chemical dangers: can decompose at high temperatures forming toxic gases.

4. First Aid Measures

Skin: remove contaminated clothing and shoes, flush with plenty of water and soap.

Eyes: flush with plenty of clear water for 15-20 minutes.

Inhalation: move affect 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; drink plenty of water. Then see doctor immediately.

5. Fire-Fighting Measures

Extinguishing media

To be used: water spray, foam, dry chemical powder and carbon oxide.

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.

6. Accidental Release Measures

Personal cautions: The product is harmful if inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Avoid inhaling spray mist. Keep people and animals away and upwind.

Cleaning methods

EX: clear the liquid formation. Transfer to a properly labelled deposit that will be closed and sealed until the recovery of elimination of the product.

Environmental cautions

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

7. Handling And Storage

Handling: Keep out of reach of children. Avoid contact with the eyes, skin and clothing and avoid inhalation of product or spray mist. If in eyes, wash it immediately with water. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Do not contaminate food or use on household tanks.

Storage: Store in the closed, original container in a dry, cool, well-ventilated area, secure area at minimum storage temperatures. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers.

8. Exposure Controls / Personal Protection

Personal protective equipment: full-length overalls

Respiratory protection: approved respirator.

Protective gloves: rubber gloves

Eye protection: safety goggles or face shield.

Industrial hygiene: ventilation

9. Physical And Chemical Properties

Appearance: Light yellow oil liquid

Melting point: $<5^{\circ}\text{C}$;

Density: $1.070(25^{\circ}\text{C})$;

Water solubility: $20\text{ mg/l } (20^{\circ}\text{C})$

Vapor pressure: 0.6mPa

Other solubility: Soluble in most organic solvents, including diethyl ether, acetone, benzene, ethanol, ethyl acetate, and hexane;

Acidity : $\leq 0.2\%$ as H_2SO_4

Flash point: $>135^{\circ}\text{C}$ (Tag closed cup);

10. Stability And Reactivity

Conditions to avoid: avoid heat and fire.

Products to avoid: not applicable

Thermal decomposition: not applicable

Hazardous decomposition products: toxic gases.

Hazardous reaction: none;

11. Toxicological Information

Acute oral LD₅₀ for rat:>5010mg/kg

Acute dermal LD₅₀ for rat:>2150mg/kg

Contact with the skin: moderate irritation to skin of rabbit;

Contact with the eyes: slight irritation to eyes

Inhalation: not applicable;

Sensitization: no-sensitive;

12. Ecological Information

Fish: LC₅₀ (96 h) for rainbow trout 0.52, bluegill sunfish 0.44, carp 0.32, channel catfish 0.10~0.14, fathead minnow 0.31 mg/l. Daphnia LC₅₀ (48 h) 2.4 mg/l. LC₅₀ (96 h) for crayfish 26 mg/l.

Bird: Acute oral LD₅₀ for mallard ducks >4640 mg/kg. Dietary LC₅₀ (5 d) for mallard ducks >10000, bobwhite quail 6597 mg/kg diet.

Bee.: LD₅₀ (contact) >100µg/bee;

13. Disposal Considerations

Product: do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and environmental regulations.

14. Transport Information

Class: 6.1 UN No.: 2769

15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this 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 formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons in 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 recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.