

Material Safety Data Sheet

Butachlor 50%EC

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product name: Butachlor 50%EC

Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Phone Numbers: Tel: 86-21 5506 3225

Fax: 86-21-5506 3699

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identity	CAS-NO.	Typical%
Butachlor	23184-66-9	50% w/v
Calcium dodecylbenzenesulfonate	26264-06-2	8 % w/v
Xylene	1330-20-7	Up to 1L

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	In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.
Eyes	In case of contact, immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water.
Ingestion	If swallowed, wash out mouth with water provided person is conscious. Induce vomiting. Obtain medical attention immediately.
Inhalation	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical personnel.

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

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socks, long-sleeved shirt, and long pants.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Soak up material with absorbent material and dispose of in accordance with local regulations. Ventilate area and wash spill site after material pickup is complete.

Disposal Method:

Cautiously dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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

Respiratory Protection	Use MSHA/NIOSH approved respirator for herbicides.
Protective Clothing	Skin contact should be prevented through the use of impervious gloves, footwear, long-sleeved clothing, wide brimmed hat and head covering. Remove contaminated work clothing and launder after each shift. Workers should shower at the end of each shift. Work clothing should be laundered separate from other garments.
Eye Protection	Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a face shield, selected in regard to exposure potential.
Other Protection	An adequate supply of clean potable water should be available to allow thorough flushing of skin and eyes in event of contact with these compounds.

9. PHYSICAL AND CHEMICALS PROPERTIES

Appearance	Brown or yellowish transparent oily liquid
Specific Gravity	1.00-1.01 (20°C)
Melting Point	-2.8°C to 1.7°C
Boiling Point	156°C/0.5 mmHg
Density	1.00-1.01
Vapour Pressure	2.4×10^{-1} mPa (25°C)

Solubility in water 20 mg/l (20°C)

10. STABILITY AND REACTIVITY

Stability	Stable up to 165°C.
Hazardous polymerization	Will not occur
Decomposition product	When heated to decompose, emits
Unusual Fire & Explosion Hazards	When heated to decompose, they emit highly toxic fumes.
Incompatibility	Hydrolyzed by strong alkalis and strong mineral acids.
Extinguishing media	Use waterfog, foam, alcohol foam, carbon dioxide and dry chemical.

11. TOXICOLOGICAL INFORMATION

- Oral LD₅₀: Rat >5000 mg/kg b.w. (m, f)
- Dermal LD₅₀: Rat >2000 mg/kg b.w. (m, f)
- Inhalation LC₅₀(4h): >1.5mg/l (Rat)
- Skin Irritation –No irritation to skin (Rabbit);
- Eye Irritation –No irritation to eyes (Rabbit)
- Sensitization –Not a Sensitizer (Guinea Pig).

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 mg/kg diet.
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

Not applicable

15. REGULATORY INFORMATION

Class: 3 UN No.: 1993

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard

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information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Tenglong Agrochem