



Hangzhou Tianlong Biotechnology Co., Ltd.

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

MATERIAL SAFETY DATA SHEET

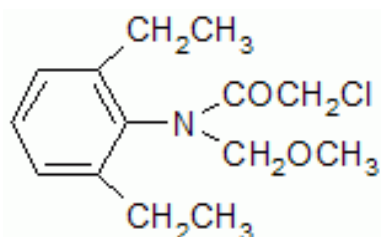
1. Chemical Product and company Identification

Product Name: Acetochlor

Molecular Formula: C₁₄H₂₀ClNO₂

Molecular Weight: 269.82

Structural Formula:



Chemical Name: 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl) acetamide

Form: Liquid

Color: Wine red to yellow

Odor: Odorless

CAS No.: 34256-82-1

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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

Tel: 0086-571-87214516

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2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Acetochlor	34256-82-1	90.0
Other ingredients		10.0

3. Hazards Identification

Emergency overview: Cause irritation to the skin and eyes. May cause skin sensitization by contact. Aspiration into lungs may cause chemical pneumonitis. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Routes of entry: Skin contact, ingestion, and inhalation.

Health hazards:

Eyes: May cause slight eye irritation.

Skin: Brief contact may cause skin burns.

Ingestion: Low toxicity if swallowed.

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material or mist may cause respiratory irritation and other effects.

4. First Aid Measures

Eye: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Skin: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items. This cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

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 told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, artificial respiration or oxygen if necessary.

5. Fire-Fighting Measures

Extinguishing Media: Carbon dioxide, dry chemical powder, foam, water.
Special Fire Fighting Equipment: Wear a self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: Toxic HCl and NO_x on decomposition.

6. Accidental Release Measures

Personal Precautions: Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill Clean-up Methods: Provide adequate ventilation. Carefully absorb on vermiculite and transfer to a closed container.

7. Handling And Storage

Handling: Harmful if swallowed. Avoid inhalation and contact with eyes and skin. Use with adequate ventilation. Do not handle broken packages without protective equipment. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Seek medical advice. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination. Worker should shower at the end of each work day. Launder all clothing before it is reused again.

Storage: Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other peptides and fertilizers.

8. Exposure Controls/Personal Protection

Respiratory Protection: Self-contained breathing apparatus or chemical cartridge.

Hand Protection: Chemical-resistant gloves, solvent-resistant gloves.

Eye Protection: Wear safety goggles.

Other Protective Equipment: Protective clothing.

9. Physical and Chemical Properties

Appearance: Wind red to yellow liquid

Specific gravity: 1.100 at 30 degrees C, 1.136 at 20 degrees C

Solubility in water: 223 ppm in water at 25 degrees C (205, 207, 208); 23 mg/L at 25 degrees C

Solubility in other solvents: Soluble in alcohol, acetone, toluene and tetrachloride

Melting point: less than 0 degrees C

Partition Coefficient: 3.03

Flashpoint: greater than 100 degrees C (closed cup)

Vapor pressure: 3.4×10^{-8} at 25 degrees C

Stability: It is considered slightly corrosive to mild steel and should not be used in mild steel tanks or with PVC or rubber hoses or pipes. Although acetochlor is stable under normal temperatures and pressures, thermal

decomposition products may include toxic oxides of nitrogen and carbon and toxic and corrosive fumes of chlorides.

10. Stability and Reactivity

Stability: Stable under normal storage conditions.

Incompatibility (Materials to Avoid): Strong acids. Strong bases. Strong oxidizing/reducing agents.

Hazardous Decomposition Products: CO/CO₂, HCl and NO_x on combustion.

11. Toxicological Information

Acute toxicity:

Oral: LD₅₀ > 2000mg/kg (rat)

Dermal: LD₅₀ > 2000mg/kg (rat)

Inhalation: LC₅₀ > 3.0mg/L (rat)

Skin irritation: Irritant

Eye irritation: Slight eye irritant

Contact sensitization reactions observed in guinea pigs.

Carcinogenicity: It probable as a human carcinogen.

Mutagenicity: Acetochlor was weakly positive in the gene mutation assay with and without activation in the mouse lymphoma assay. However, negative in a DNA damage repair assay, Salmonella assay and chromosomal aberration studies. Positive evidence of Mutagenicity was found in various studies at the mid-and high-dose levels.

Reproductive and developmental effects: Did not toxicity.

12. Ecological Information

Bird toxicity

Acute oral LD50 : bobwhite 1260mg/kg

Feeding LC50(5days) : mallard >5620mg/kg
quail >5620mg/kg

Fish toxicity

LC50(96h) : rainbow trout 0.45mg/L
bluegill 1.30mg/L

Other toxicity

Bee LD50(24h) : >200µg/bee (contact)
>100 g/bee (oral)

Daphnia LC50(14days) :211mg/kg soil

13. Disposal Considerations

Disposal Procedures: Via licensed disposal company. Dispose of according to federal and local regulations.

14. Transport Information

UN No.: 3082.

Class: 9.

Packing Group: III

15. Regulatory Information

Keep locked up out of reach of children and other, unauthorized persons. Keep away from food, drink and animal feeding stuffs.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not get in eyes, on skin or on clothing. Do not breathe dust, vapor or spray mist.

In case of accident or if you feel unwell, seek medical advice immediately.

This material and its container must be disposed of in a safe way.

Do not contaminate any body of water.

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.