



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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1. Chemical Product Identification

Common Name: Alachlor 95% TC

Molecular Formula: C₁₄H₂₀ClNO₂

Molecular Weight: 269.77

Structural Formula:



Chemical Name: 2-chloro-2',6'-diethyl-N-methoxymethylacetanilide

Form: Solid

Color: Yellow white to wine red

Odor: Odorless

CAS No.: 15972-60-8

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Alachlor	15972-60-8	95
Other ingredients	---	5

3. Hazards Identification

Primary Route(s) of Exposure/Entry: Skin, Eyes and Mouth. Flush skin and eyes with large amounts of water. If ingested, seek prompt medical attention.



4. First Aid Measures

Inhalation: If inhaled seek prompt medical attention.

Skin Contact: In case of contact, immediately flush skin with large amounts of water.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids may be lifted occasionally, until no evidence of chemical remains. Call a physician.

Ingestion: The compound is toxic by ingestion. If sulfuric acid is ingested, do NOT induce vomiting.

5. Fire-Fighting Measures

Extinguishing Media: Use media appropriate for surrounding material.

Special Fire Fighting Instructions: Firefighters must wear appropriate protective clothing and self – contained breathing apparatus.

6. Accidental Release Measures

Spill, Leak, or Release: Review fire and explosion hazards and safety precautions before proceeding with clean up. Use appropriate personal protective equipment during clean up. Contain spill and collect in suitable waste container. Avoid contact of materials with skin or eyes. Use adequate ventilation. No special clean up practices are required.

Waste Disposal: Dispose of as solid waste in accordance with any applicable federal, state, and local requirements.

7. Handling And Storage

Handling: Harmful by inhalation or if swallowed. Avoid contact with eyes and skin, and inhalation of vapour and spray. Use with adequate ventilation. Avoid exposure to spray. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. 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.

Storage: Store in a dry, cool covered warehouse in original, welllabelled containers. Keep containers tightly closed. Store away from food, feedstuffs, fertilisers, seed and agricultural



chemicals. Keep away from children and animals. Local regulations should be complied with.

8. Exposure Controls/Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:

Respirator: An approved respirator suitable for protection from spray or mists of pesticides is required. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Gloves: Employee must wear appropriate chemical resistant protective gloves to prevent contact with this substance.

Eye protection: The use of chemical resistant goggles or face shield.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. Physical and Chemical Properties

Melting point: 41 °C

Boiling point: 100 °C

Bulk density: 1.13 g/ml

Partition Coefficient: $\log P = 3.09$ (at pH 7, 20 °C)

Vapour pressure: 2.9 mPa (25 °C)

Solubility: 240 mg/l in water (20 °C)

10. Stability and Reactivity

Stability: Considered stable for a period of 2 years under recommended warehouse and light conditions.

Hazardous decomposition: Emits toxic and irritant vapours under fire conditions.

Incompatibility: Hydrolysed by strong acids and bases. May corrode plastic, steel and black iron.

Thermal decomposition: Thermal decomposition products may include toxic oxides of



nitrogen and carbon and toxic corrosive fumes of chloride.

11. Toxicological Information

Acute oral LD50 for rat: 930 a.i.mg/kg

Acute dermal LD50 for rabbit: >13300 a.i.mg/kg

Inhalation LC50 (4 h) for rat: 1.04 a.i. mg/L

Skin irritation: Non-irritant to skin (rabbits)

Eye irritation: Non-irritant to eyes (rabbits)

Skin sensitization: Contact sensitisation reactions observed in guinea pigs

12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute oral LD50 for Bobwhites quail is 1536 a.i.mg/kg.

Effect on fish: moderate toxicity to fish, acute 96 hour LC50 for Rainbow trout is 1.8 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 10 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 for Scenedemus subspicatus is 0.966 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD50 is 16 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is 386.8 a.i.mg/kg.

13. Disposal Considerations

Pesticide and container disposal: Open dumping or burning of this pesticide is prohibited. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum



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of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose. Destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

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.