

AcetoSafe

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: AcetoSafe
Pesticide Classification: Herbicide
UN No.: 3082

Supplier

Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Registration Holder

Erintrade CC t/a RT Chemicals
Co. Reg. No.: CK2001/036403/23
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Telephone: +27 87 231 7261
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Bateleur: +27 83 123 3911

In case of Poisoning:

Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

Common Name: Acetochlor 700 g/l EC
Chemical Name: 2-chloro-*N*-ethoxymethyl-6'-ethylaceto-0-toluidide (IUPAC)
Empirical formula: C₁₄H₂₀ClNO₂
CAS No.: 34256-82-1
RSA Reg. No.: L7820 Act/Wet No. 36 of/van 1947
Namibia Reg. No.: N-AR 1190

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Cas No.</u>	<u>Concentration</u>
Acetochlor	34256-82-1	≥ 700 g/l
Calcium dodecylbenzenesulfonate	26264-06-2	≤ 166 g/l
Dichlormid (safener)	37764-25-3	≤ 89 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Harmful if swallowed or inhaled.

Flammability: Flammable

Chemical Hazard: Causes eye irritation. May cause allergic skin reaction.

Biological Hazard: Highly toxic to aquatic organisms.

4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital, or the nearest Poison Control Centre.

Symptoms of Human Poisoning: No signs and symptoms of poisoning are known or expected in humans.

First Aid Measures:

Skin Contact: Immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before re-use. Persons sensitized to acetochlor should avoid further contact and re-use of contaminated clothing. Get medical attention.

Eye Contact: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Offer a glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. A physician or Poison Control Center can be contacted for advice.

Inhalation: Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

5. FIRE FIGHTING MEASURES

Flammability: Flammable

Extinguishing Agents: Water spray, foam, dry chemical, CO₂ or other Class B extinguishing agents.

Firefighting: Fire fighters and others that may be exposed to vapours, mists, dusts or products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.

Special Hazards: None to specifically mention.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Wear protective clothing. Avoid breathing vapours or spray drift. If necessary, wear a self-contained breathing apparatus.

Environmental Precautions: Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material.

Spills: Liquid spills on floors or other impervious surfaces should be contained or diked and should be absorbed with attapulgate, bentonite or other absorbent clays. Collect contaminated absorbent, place in metal drum and dispose of in accordance with instructions provided under Section 13 of this document. Thoroughly scrub floor with a strong industrial type detergent solution and rinse with water. Liquid spills that soak into the ground should be dug up, placed in metal drums and disposed of in accordance with instructions provided under Section 13 of this document.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section 13 of this document. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash thoroughly and change into clean clothing. Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighbouring areas. Do not contaminate water when disposing of equipment wash water. Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Storage: Store at temperature not exceeding 30 °C. Avoid contact with skin, eyes and clothing. Store in original sealed containers, in a well-ventilated and dry storehouse. Keep away from direct sunlight, food, seed, animals, children and uniformed persons. Do not leave spray solution in spray tanks for long periods.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): 0.01 mg/kg body weight.

Engineering Controls: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Use outdoors in a well-ventilated area. Comply with occupational safety, environmental, fire and other applicable regulations. Wear suitable personal protective equipment.

Personal Protective Equipment:

Clothing: Wear appropriate protective clothing and waterproof gloves to prevent skin contact. Applicators and other handlers must wear long sleeved shirt, long pants, waterproof gloves and shoes with socks. Wash hands and contaminated skin thoroughly after handling. Follow manufacturer's instructions for cleaning/maintaining PPE. Repeated or prolonged contact may cause allergic skin reaction in some people.

Eye Protection: Wear chemical safety goggles to prevent eye contact during operations such as mixing or transfer or other activities when there is potential for eye contact. 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.

Respirator: Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection. In work situations where an air purifying respirator is appropriate to be used, use of a respirator equipped with purifying elements for protection against organic vapor and dust/mist approved for pesticides is recommended.

Other Protection: Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after work shift. Wash hands during breaks and at the end of the work with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale pink liquid.

pH: 6.7

Flash Point: 58 °C

Stability at 30°C: Can store for 2 years.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

Stability: Stable for at least 2 years under normal warehouse conditions.

Conditions to Avoid: Avoid excessive heat and ignition sources.

Incompatible Materials: No data available.

Decomposition Products: Emits toxic and irritant vapours under fire conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on active ingredient toxicity.

Acute Oral LD₅₀ (rat): 1 338 mg/kg. Slightly toxic.

Acute Dermal LD₅₀ (rat): >5 000 mg/kg. Practically non-toxic.

Acute Inhalation LC₅₀ (rat, 4 hr): >1.1 mg/l air. Slightly toxic.

Eye Irritation (rabbit): Slightly irritating.

Skin Irritation (rabbit, 4 hr exposure): Slightly irritating.

Sensitization: This formulation exhibited the potential to produce dermal sensitization in guinea pigs.

Chronic Dietary Study: In feeding studies with rats and mice (91-day), acetochlor technical produced reduced body weights. In repeat dosing studies with dogs, acetochlor technical produced reduced body weights and reduced feed consumption with liver, kidney and bone marrow effects at amounts which produced some animal deaths (119-day) or with testicular effects (1-year). Decreased body weight, reduced feed efficiency, some animal deaths, some organ weight changes, slight anemia, eye damage, liver and kidney effects and tumours of the liver, lung and possibly histiocytic sarcomas were noted with long-term (23-month) feeding of acetochlor technical to mice.

Carcinogenicity: In various studies carcinogenicity effects were noted. Based on data, the US EPA has classified acetochlor as a "probable human carcinogen".

Mutagenicity: Acetochlor technical produced no genetic changes in standard tests using animals.

Reproductive Hazard: No birth defects were noted in rats and rabbits given acetochlor technical orally during pregnancy, even at amounts which produced adverse effects on the mothers. Reductions in body, pup and spleen weights as well as a reduction in litter size were noted when rats were fed acetochlor technical for two successive generations.

Safening Agent: This agent was slightly toxic orally (rats), practically non-toxic after skin application (rabbits) and no more than moderately toxic after inhalation (rats). It was slightly irritating to rabbit eyes and skin. In repeat dosing studies (28-day), dogs and mice fed this agent exhibited reduced body weights and food consumption with clinical signs of toxicity, stomach and intestinal effects in dogs. Lower doses given to dogs for a longer period (90-day), produced a few uncertain clinical parameter changes. Rats fed this agent (90-day) exhibited reduced body weight, clinical parameter changes and liver effects. Skin allergy was observed in guinea pigs following repeated skin exposure. Developmental effects were noted following oral dosing of this agent to pregnant rats at amounts, which produced adverse effects on the mother. No birth defects were noted in rabbits given this agent orally during pregnancy, even at amounts which produced adverse effects on the mother. This agent has produced no genetic changes in standard tests using animals and animal or bacterial cells.

Emulsifier: Available information indicates that this emulsifier is irritating and painful to the eyes. Prolonged or repeated skin contact may result in irritation. Inhalation of mists may result in respiratory tract irritation. Prolonged inhalation of mists or vapours may result in headaches, nausea, dizziness and disorientation. In addition, this emulsifier can be absorbed by inhalation, which may result in liver or kidney damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 0.45 mg/l (rainbow trout); 1.3 mg/l (bluegill sunfish). Highly toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): 16 mg/l. Toxic to daphnia.

Aquatic Toxicity Algae EC₅₀ (5 days): Very toxic to algae.

Avian Toxicity LD₅₀: >1 260 mg/kg (bobwhite quail). Moderately toxic to birds.

Bee Toxicity LD₅₀: Acetochlor is considered moderately toxic to honeybees.

Biodegradability: The main method of degradation is microbial breakdown. Average persistence at recommended rates is 8 to 12 weeks but vary depending on soil type and climatic conditions.

Bio-accumulation: No data available.

Mobility: Acetochlor is adsorbed by soil colloids and leached very little.

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not discharge into drains or sewers. Do not contaminate crops, grazing, rivers or dams with chemical or used container. Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal in accordance with applicable local procedures. Comply with any local legislation applying to waste disposal.

Container Disposal: Emptied container retains vapor and product residue. Observe all labelled safeguards until container is destroyed. Triple rinse emptied bulk container, then offer for recycling or reconditioning, or dispose of container as hazardous waste via a licensed disposal contractor to an approved landfill.

14. TRANSPORT INFORMATION

UN No.: 3082

Hazard Class: 9

Packing Group: III

Proper Shipping Name: Environmental Hazardous Substance; Liquid; N.O.S (contains Acetochlor).

15. REGULATORY INFORMATION

Risk Phrases: R20/22- Harmful by inhalation and if swallowed.

R36/37/38- Irritation to eyes, respiratory system and skin.

R40- Limited evidence of a carcinogen.

R41- Risk of serious damage to eyes.

R43- May cause skin sensitisation by skin contact.

R50- Very toxic to aquatic organisms.

Safety Phrases: S1/2- Keep locked up and out of the reach of children.

S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S60- This material and its container must be disposed of as hazardous waste.

National Legislation: This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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