

# SAFETY DATA SHEET

## AcetoSafe

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product Name:** AcetoSafe  
**Other identifier:** Acetochlor 700 g/L EC  
**Pesticide Classification:** Herbicide  
**Restrictions on use:** Agriculture

#### 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,  
 C.C Reg. No.: CK2001/036403/23  
 44 Kerk Street, Lichtenburg  
 North West, South Africa 2740

**Telephone:** +27 12 006 0063  
**Fax:** 086 541 7948  
**Website:** www.envirobiochem.co.za

**24 Hr Emergency Number:** Spillage: 0861 000 366

#### **In case of Poisoning:**

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

### 2. HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	Hazard statements
Flammable liquid	Category 3	H226
Acute toxicity oral	Category 3	H301
Skin irritation	Category 2	H315
Skin sensitization	Category 1	H317
Eye damage	Category 1	H318
Acute toxicity inhalation	Category 4	H332
STOT SE	Category 3	H335
Carcinogen	Category 2	H351
Reproductive Toxicity	Category 2	H361f
STOT RE	Category 2	H373
Aquatic Toxicity Acute	Category 1	H400
Aquatic Toxicity Chronic	Category 1	H410

#### **The most important adverse effects:**

**The most important adverse physicochemical effects:** Flammable liquid and vapour.

**The most important adverse human health effects:** Toxic if swallowed. Harmful if inhaled. Suspected carcinogen. Suspected of damaging fertility. Causes serious eye damage, skin irritation and may cause an allergic skin reaction.

**Label elements:**



**Signal word:** Danger

**Hazard statements:**

- H226: Flammable liquid and vapour.
- H301: Toxic if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H351: Suspected of causing cancer.
- H361f: Suspected of damaging fertility.
- H373: May cause damage to kidneys through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- P102: Keep out of reach of children
- P103: Read label before use
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
- P233: Keep container tightly closed.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
- P264: Wash hands, forearms, and face thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if.
- P332+P313: If skin irritation occurs: Get medical advice/ attention.
- P362: Take off contaminated clothing.
- P391: Collect spillage.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local/regional/ national regulations

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances/ Mixture:** Mixture

**Composition:**

Chemical Name	CAS	Conc. (m/m%)	Classification EC 1272/2008
Acetochlor	34256-82-1	72 %	Skin Irritation (Category 2) H315 Skin Sensitization (Category 1) H317 Acute Toxicity -Inhalation (Category 49) H332

			STOT SE (Category 3) H335 Carcinogenicity (Category 2) H351 STOT RE (Category 2) H373 (kidney) Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410 Reproductive Toxicity (Category 2) H361f
Calcium dodecylbenzene sulfonate	26264-06-2	<20%	Skin Irritation (Category 2) H315 Eye damage (Category 1) H318 Aquatic Chronic (Category 4) H413 Acute Toxicity Oral (Category 4) H302
Dichlormid (safener)	37764-25-3	<10 %	Skin Irritation (Category 2) H315
Dimethylbenzene	1330-20-7	<10 %	Flammable liquids (Category 3) H226 Acute toxicity, Inhalation (Category 4) H332 Acute toxicity, Dermal (Category 4) H312 Skin irritation (Category 2) H315

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

#### 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor / poison control centre.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists / person feels unwell. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if you feel unwell after inhalation.

**Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists / person feels unwell.

**Eyes:** Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation persists.

**Ingestion:** Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. If swallowed, get emergency medical help immediately.

**Anticipated acute effects:** Irritant, may cause an allergic skin reaction. Hazardous in case of eye contact. May be toxic if swallowed. Hazardous in case of inhalation product is a lung irritant. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.

**Anticipated delayed effects:** After prolonged or repeated exposure may increase the risk of cancer, impair fertility, and cause kidney damage.

**Most important symptoms/effects:** None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

#### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

**Specific hazards:** Flammable. Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

**Special Fire Fighting Procedures:** Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes and skin. Do not breathe in spray mist or dust. Ventilate area of spill, especially in contained areas.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures:** Alert firefighting personnel, evacuate unprotected personnel and animals.

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

**Methods and Materials for Containment:** Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as sand, earth, vermiculite, or diatomaceous earth.

**Methods and Materials for Clean-up:** Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

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## 7. HANDLING AND STORAGE

### Handling:

**Precautions for safe handling:** May be harmful if swallowed. Avoid contact with skin. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Avoid release to the environment. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**General occupational hygiene:** Handle in accordance with good industrial hygiene and safety practice. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

### Storage:

**Conditions for safe storage:** Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure Limits:

No data available.

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**Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

**Personal Protective Equipment:**

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

**Hand Protection:** The use of chemically protective gloves is recommended to prevent against skin contact. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Eye Protection:** The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

**Skin and Body Protection:** Employee must wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

**Emergency eyewash:** 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.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Pale Pink
Odour	No data available
Odour threshold	No data available
pH	6.7
Melting point / freezing point (° C)	No data available
Boiling point (° C)	No data available
Flash point (° C)	58°C
Evaporation rate	No data available
Flammability	Combustible Liquid
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	No data available
Water solubility (g/l) at 20°C	No data available
Partition coefficient: n-octanol/water partition coefficient	No data available
Auto-ignition temperature (° C)	No data available
Decomposition temperature (° C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

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## 10. STABILITY AND REACTIVITY

**Chemical Stability:** The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

**Reactivity:** The product is stable under normal conditions.

**Possibility of Hazardous Reactions:** No information available.

**Conditions to Avoid:** Extreme heat or exposure to flames.

**Incompatible Materials:** Strong oxidizers, strong bases, strong reducing agents.

**Hazardous Decomposition Products:** Alcohols. Carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

**Calculated according to GHS:**

**Acute Oral LD<sub>50</sub> (rat):** > 196 g/kg

**Acute Dermal LD<sub>50</sub> (rat):** > 5000 mg/kg

**Acute Inhalation LC<sub>50</sub> (rat, 4 hr):** > 1.5 mg/l air.

**Skin Irritation:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye damage

**Skin Sensitization:** May cause an allergic skin reaction.

**Respiratory Sensitization:** May cause an allergic skin reaction.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Suspected of causing cancer

**Reproductive toxicity:** Suspected of damaging fertility

**Specific target organ toxicity – single exposure:** May cause respiratory irritation.

**Specific target organ toxicity – repeated exposure:** May cause damage to kidneys through prolonged or repeated exposure.

**Aspiration hazard:** Not classified.

**Chronic Effects (other targets e.g. developmental):** Not classified

## 12. ECOLOGICAL INFORMATION

The product is classified as a marine pollutant.

### ECOTOXICITY DATA:

**Active ingredient: Acetochlor CAS No. 34256-82-1**

#### Fish

LC<sub>50</sub> (96 hr) 0.36 mg/l (rainbow trout); 1.3 mg/l (bluegill sunfish).

#### Daphnia

LC<sub>50</sub> (48 hr) 8.6 mg/l

#### Algae

E<sub>r</sub>C<sub>50</sub> (72h) 0.00052 mg/l (*Selenastrum capricornutum*)  
0.010 mg/l (*Skeletonema costatum*)

#### Birds

Acute oral LD <sub>50</sub>	928 mg/kg (bobwhite quail); >2000 mg/kg (mallard ducks)
Dietary LC <sub>50</sub> 5 days	>5620 mg/kg diet bobwhite quail and mallard ducks

#### **Bees**

Toxicity to bees LD <sub>50</sub> (oral)	>100 µg/bee.
Toxicity to bees LD <sub>50</sub> (contact)	>200 µg/bee.

#### **Worms**

LC <sub>50</sub> (14d)	>211 mg/kg soil ( <i>Eisenia fetida</i> )
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**Biodegradability:** Microbial degradation is the primary route of dissipation in soil, with reported DT<sub>50</sub> values ranging from 8 to 18 days. This indicates relatively rapid breakdown under normal conditions.

**Bioaccumulation:** With a log K<sub>ow</sub> of 4.14, the compound has a high potential for bioaccumulation.

**Mobility:** The substance is strongly adsorbed to soil, resulting in low leaching potential. The major degradation products are water-soluble acids formed via oxidative displacement of chlorine (oxanilic acid) or through glutathione conjugation, followed by catabolism to sulphur-containing acids such as sulfonic and sulfinylacetic acids.

### 13. DISPOSAL CONSIDERATION

**Pesticide Disposal:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product 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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

**Package Product Wastes:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

### 14. TRANSPORT INFORMATION

<b>UN Number</b>	1933
<b>Road Transport ADR/IRD:</b>	
Class:	3
Packaging group:	III
UN proper Shipping Name:	Flammable Liquid, N.O.S., (ACETOCHLOR 700 g/l)
<b>Maritime Transport IMDG/IMO:</b>	
Class:	3
Packaging group:	III
UN proper Shipping Name:	Flammable Liquid, N.O.S., (ACETOCHLOR 700 g/l)
<b>Marine Pollutant (Y/N):</b>	Yes
<b>Air Transport IATA/ICAO:</b>	
Class:	3
Packaging group:	III
UN proper Shipping Name:	Flammable Liquid, N.O.S., (ACETOCHLOR 700 g/l)

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management Waste Act 59 of 2008. Act 36 of 1947 of the Republic of South Africa. This product is registered under 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

**Chemical Safety Assessment carried out?** No

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## 16. OTHER INFORMATION

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

**Other hazard statements, abbreviations and explanations:**

**H226:** Flammable liquid and vapour.

**H301:** Toxic if swallowed.

**H315:** Causes skin irritation.

**H317:** May cause an allergic skin reaction.

**H318:** Causes serious eye damage.

**H332:** Harmful if inhaled.

**H335:** May cause respiratory irritation.

**H351:** Suspected of causing cancer.

**H361f:** Suspected of damaging fertility.

**H373:** May cause damage to kidneys through prolonged or repeated exposure.

**H400:** Very toxic to aquatic life.

**H410:** Very toxic to aquatic life with long lasting effects.

**IATA:** International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization.

**IMDG:** International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

**LD50 value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

**OEL/RL:** Occupational exposure limit-recommended limit.

**TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

**ST/STEL:** Short-term exposure limits.

**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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## END OF DOCUMENT

**Compiled:** /  
**Reviewed:** July 2025  
**Next revision:** July 2030

For detailed information on revisions, contact the registration holder.