

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

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SAFETY DATA SHEET

“SHARDA ACETOCHLOR 900 EC”

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: “Sharda Acetochlor 900 EC”

Active Ingredient: Acetochlor

Product Use: Herbicide

Registration holder: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135.

Contact Tel. No.: 031-764-3011

Poison Centers: UNITAS Hospital – 0800-111-9900
Tygerberg Hospital – 021-931-6129
NetCare: 082911.

2. HAZARD IDENTIFICATION (Substance hazard class and category)

Active Ingredient and Formulation Health Risk: May be slightly irritating to mucous membranes and eyes.

Inhalation: Inhalation may cause chemical pneumonitis.

Skin Contact: Not a skin irritant.

Eye Contact: Can cause mild irritation.

Ingestion: Ingestion may cause nausea, vomiting, stomach ache and diarrhoea.

Environmental Risks: Toxic to aquatic organisms.

Other Risks: Do not contaminate any water body.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Active Ingredient:	Acetochlor	CAS No. 34256-82-1	90%
	Other Ingredients		10%

4. FIRST AID MEASURES

Symptoms of Poisoning: May be slightly irritating to mucous membranes.
Ingestion may cause nausea, vomiting, stomach ache and diarrhoea.

Eye contact: Flush eyes with plenty of clean water, occasionally lifting upper and lower eye lids, for at least 15 minutes and until no evidence of the compound remain.
Obtain medical attention immediately.

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Skin contact: Remove all contaminated clothing. Wash skin thoroughly with soap and large quantities of water.

Inhalation: Remove patient to fresh air. Administer symptomatic treatment and obtain medical attention.

Ingestion: Do not induce vomiting. Wash out the patient's mouth with water and give a large quantity of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if necessary.

Advice to doctors / physician: If ingested perform gastric lavage and administer activated charcoal. Due to the solvent present, if a small amount of the product is aspirated into the respiratory system or from vomiting, bronchopneumonia or pulmonary oedema may be caused. Treat symptomatically and give supportive therapy.

Antidote: There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use dry chemical, carbon dioxide, soft water spray, alcohol-resistant foam. Water spray or fog can be used for cooling unaffected product and avoid water contact with the product. Avoid high pressure water spray. Contain fire-fighting water and prevent contamination of any water source and drains.

Fire and Explosion Hazards: Isolate the fire area. The formulation is not flammable but at high temperatures the packaging and other material must be considered. The product is not explosive.

Hazardous Products of Combustion: Combustion products - carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine, hydrogen fluoride - are toxic and/or irritant. Inhalation of the material can be harmful - Do not breathe smoke, gases or vapours generated.

Fire Fighting Equipment: Wear full protective clothing and a self-contained breathing apparatus.

Fire Fighting: Remove spectators from the area. Keep up-wind of the fire. Avoid inhalation of vapours and fumes from burning material. Fight the fire from maximum distance. Remove containers from the fire area if possible and without risk.

6. ACCIDENTAL RELEASE MEASURES (Spillage)

Personal Precautions and Protective Equipment: Avoid contact with the skin and eyes. Do not breathe fumes. Wear personal protective clothing (overall, boots, gloves). Keep personnel and spectators up-wind of the spillage.

Emergency Procedures: Isolate the spillage area. Keep unprotected persons and animals out of the area. Dyke to confine the spillage and prevent contamination of drains and water bodies.

Environmental Precautions: Keep the spillage out of waterways, drains, streams, rivers and dams. Acetochlor is toxic to fish and algae.

Methods and Materials for Cleaning up: Absorb with a non-combustible absorbent material such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

Refer to Section 13 for disposal of spilled material.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed at all times when handling this product. Areas for handling and storage should be well ventilated.

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Handling:

- Do not handle near a heat source or ignition point.
- Avoid contact with eyes and skin.
- Remove contaminated clothing and wash thoroughly before re-use.
- Do not eat, drink or smoke while handling this product.
- Wash hands and exposed skin thoroughly after handling or contact with this product and before eating, drinking and smoking.
- Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water.
- Refer to Section 13 for disposal of rinse water.
- Observe all safeguards on the label as to cleaning and destruction of the container.

Storage:

- Store in a cool dry well-ventilated place protected from sunlight, moisture and rain.
- Store away from any heat source and ignition point.
- Keep out of reach of children, uninformed persons and animals.
- Store away from other pesticides, food, drink, seed and animal feed.
- Store only in the original labeled container.
- Minimum Shelf Life: 2 years.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Clothing

To reduce personnel exposure to this product, it is recommended to use appropriate personal protective clothing when handling this product. Do not wear leather clothing.

Respiratory Protection: For periods of prolonged exposure, wear a face mask or respirator.

Hand Protection: Wear chemical resistant gloves when handling the concentrate.

Eye Protection: Wear a face mask or goggles when handling the concentrate.

Skin and Body Protection: Wear a long sleeved overall and boots.

Exposure Control Parameters

Exposure Limit: None assigned.

Exposure Limit, aromatic hydrocarbons: May apply, 100 ppm.

Engineering Controls:

Ensure thorough ventilation when handling the concentrate.

Hygiene Measures:

Do not eat, drink, smoke or go to the bathroom while handling this product.

Wash face, hands and exposed skin after handling this product.

Wash contaminated clothing after exposure to this product.

Re-entry Interval: Do not enter treated field within 1 day after application unless wearing protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES OF PRODUCT

These are typical data based on tests but may vary from sample to sample. These typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Appearance, Colour	Light brown/yellow; Liquid.
Form	Liquid
Odour	Slight chemical odour.
pH	6.32
pH; 1% aqueous solution	6.1
Flash Point	23 °C
Explosive Limits	Not explosive.

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Boiling Point	162 °C.
Decomposition Temperature	180 °C
Density	1.1
Solubility (water)	Acetochlor = 223-282 mg/ℓ
Viscosity	Acetochlor is not viscous.
Volatility	Volatility is minimal at ambient temperatures.
Corrosivity	The formulation is not corrosive.

10. STABILITY AND REACTIVITY

Stability: Stable for 2 years under ambient conditions.

Hazardous Decomposition: No data available.

Incompatibility: No data available.

Conditions to Avoid: Heat and ignition sources.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and health professionals.

Data obtained on this and similar products and components are summarized below.

Acute Oral Toxicity: Rat, LD50: > 2 148 mg/kg body weight

Acute Dermal Toxicity: Rat, LD50: > 5 000 mg/kg body weight

Skin Irritation/Corrosion: Rabbit, not an irritant.

Eye Irritation/Damage: Rabbit, mild irritant.

Skin Sensitization: Guinea Pig, Not a skin sensitizer.

Mutagenicity: Acetochlor is a weak mutagen. It is weakly positive in the gene mutation assay and without activation in the mouse lymphoma study.

Carcinogenicity: Acetochlor is a possible human carcinogenic.

Toxicity to Reproduction and/or Fertility: Acetochlor is not a reproduction toxin.

12. ECOLOGICAL INFORMATION

This section is intended for use by eco-toxicologists and environmental specialists.

Data obtained on acetochlor active ingredient are summarised below.

Aquatic Toxicity, Fish:

Bluegill Sunfish: Acute toxicity, 96 hours, static, LC₅₀ = 1.3 mg/ℓ

Rainbow Trout: Acute toxicity, 96 hours, static, LC₅₀ = 0.36 mg/ℓ

Aquatic Toxicity, Invertebrates:

Water Flea (*Daphnia magna*), 48 hours, static, EC₅₀ = 16.0 mg/ℓ

Arthropod Toxicity

Honey bee (*Apis mellifera*): Contact, 48 hours, LD₅₀ = > 200 µg/bee

Avian Toxicity

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Bobwhite Quail (*Colinus virginianus*): Dietary toxicity, 5 days, $LC_{50} = > 5\ 620$ mg/kg diet
Bobwhite Quail (*Colinus virginianus*): Acute oral toxicity, $LD_{50} = 1\ 590$ mg/kg body weight
Mallard Duck (*Anas platyrhynchos*): Dietary toxicity, 5 days, $LC_{50} = > 5\ 620$ mg/kg diet
Mallard Duck (*Anas platyrhynchos*): Acute oral toxicity, $LD_{50} = > 2\ 000$ mg/kg body weight

Soil Organism Toxicity, Invertebrates

Earthworm (*Eisenia foetida*): Acute toxicity, 14 days, $LC_{50} = 211$ mg/kg soil

Bioaccumulation

Bioaccumulation is not expected as metabolism is expected to be rapid.

Persistence / Degradability:

Soil $DT_{50} = 8$ to 18 days

Water $DT_{50} = 12$ days

Mobility in Soil: Acetochlor has an affinity for soil and is unlikely to be mobile in soil.

13. DISPOSAL CONSIDERATIONS

Product

Recycle if appropriate equipment and/or facilities are available.

Do not burn.

Dispose of as hazardous industrial waste.

Keep out of drains, sewers, ditches and water ways.

Follow all local / regional / national / international regulations.

Containers

Invert the empty container over the spray or mixing tank and allow draining 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 of 10 % of that of the container. Add the rinsing 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 and destroy it by perforation and flattening.

Pour rinse water into spray tank; spray on target area.

Store for collection by approved waste or recycling disposal service.

Dispose of as non-hazardous industrial waste.

Do not use containers for any other purpose.

Follow all local / regional / national / international regulations.

14. TRANSPORT INFORMATION

For safe transport of hazardous substances apply appropriate local codes, classifications and regulations.

UN No.: 3082

UN Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

Land Transport (road or Rail):

Class 3; Subsidiary group 3.2.

Shipping Name: Non-flammable liquid, N.O.S. (Acetochlor 900 g/l).

Sea Transport: Marine pollutant.

Class 3; Subsidiary group 3.2.

Shipping Name: Non-flammable liquid, N.O.S. (Acetochlor 900 g/l).

Air Transport: Marine pollutant.

Class 3; Subsidiary group 3.2.

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Shipping Name: Non-flammable liquid, N.O.S. (Acetochlor 900 g/l).

15. REGULATORY INFORMATION

RSA: Registration Number L , Act Number 36 of 1947.

SEARCH: Registration in the following countries –

RSA Classification: Group IV (Green)

16. OTHER

The information presented is not necessarily exhaustive but is regarded as representative. These data are presented in good faith and are believed to be correct. No representation as to the completeness or accuracy of these data is made. No responsibility for damages of any nature whatsoever resulting from the use of or reliance upon this information will be accepted. In the event of any uncertainty, consult the supplier before use.
