



FarmAg Acetochlor 900 EC (Acetochlor 900 g/l)

Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010
Issue date: 9/1/2022 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Trade name	: FarmAg Acetochlor 900 EC (Acetochlor 900 g/l)
Type of product	: Herbicide
CAS-No.	: 34256-82-1
Product group	: End product

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	: An emulsifiable concentrate herbicide for the pre-emergence control of annual grasses and certain broadleaf weeds in groundnuts maize and sugarcane and early post emergence weed control in plant and ratoon cane.
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1.3. Supplier's details

Supplier

Farm-Ag International (Pty) Ltd
Old Mill Industrial Park
61, Marshall Drive
P.O. Box 1523
4300 Mount Edgecombe – Durban KwaZulu Natal
South Africa
T 031 003 3486

1.4. Emergency telephone number

Emergency number	: 24 Hr Emergency Number: In case of Poisoning: Poison Information Helpline : 0861 555 777
	In case of Spillage: HAZMAT:0800 147 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 5	H303
Acute toxicity (dermal), Category 5	H313
Acute toxicity (inhalation:vapour) Category 3	H331
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

Full text of H-statements: see section 16

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2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)

: Danger

Hazardous ingredients

: Acetochlor TC, Alkylbenzene sulfonate, xylene

Hazard statements (GHS ZA)

: H226 - Flammable liquid and vapour.
H303 - May be harmful if swallowed
H313 - May be harmful in contact with skin
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS ZA)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.
P201 - Obtain special instructions 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.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe spray, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P310 - Immediately call a doctor.
P311 - Call a doctor.
P312 - Call a doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), D-powder, foam to extinguish.
P391 - Collect spillage.
P233 - Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant.

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2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Suspected of causing cancer,Suspected of damaging fertility or the unborn child,May cause damage to organs (kidneys) through prolonged or repeated exposure,Toxic if inhaled,Harmful in contact with skin,Harmful if swallowed,May cause respiratory irritation,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye damage,Very toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Acetochlor TC	CAS-No.: 34256-82-1	≥ 80 – < 85	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
xylene	CAS-No.: 1330-20-7	≥ 5 – < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5	≥ 5 – < 10	Eye Irrit. 2A, H319 Aquatic Chronic 2, H411
Alkylbenzene sulfonate	CAS-No.: 68953-96-8	≥ 5 – < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

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Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Toxic if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Contain water used for fire-fighting for later disposal.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: The fire will produce carbon monoxide nitrogen oxides and hydrogen chloride.
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5.3. Advice for firefighters

Firefighting instructions	: 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.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Personal protection (Emergency response)	: Wear respiratory protection, Wear protective gloves, Wear protective clothing, Wear eye protection, Wear a face shield



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Do not breathe spray, vapours. Avoid contact with skin, eyes and clothing.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Dyke soil to prevent further contamination. Absorb spillage with absorbent material such as sand, sawdust, lime, soil. Sweep up and collect contaminated soil and absorbent material and place in marked drums for later appropriate disposal.

Prevent contamination of drains, water bodies and sewerage systems.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Use personal protective equipment to minimize exposure. Take all necessary action to prevent and to remedy the adverse effect of the spill. Use absorbent material such as sand, sawdust, lime, soil. The area can be washed with water to remove last traces of material, but keep the water out of drains, watercourses or sewers. Ensure the disposal is in compliance with local requirements and regulations. Inform authorities immediately if contamination occurs.

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Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe spray, vapours. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage area : Store out of reach of unauthorised persons, children and animals.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: Sources of sparks, flame or heat.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: Water supplies. Food supplies.

Maximum storage period : 2 years

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

xylene (1330-20-7)

South Africa - Occupational Exposure Limits (Recommended Limits)

Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021

South Africa - Occupational Exposure Limits (Airborne Pollutants)

Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA	218 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	435 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

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Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Colourless to yellow.
Odour	: No data available
Odour threshold	: No data available
pH	: 7.4 – 7.6
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.11
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Water: 233 mg/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.
Acute toxicity (dermal) : May be harmful in contact with skin.
Acute toxicity (inhalation) : Toxic if inhaled.

FarmAg Acetochlor 900 EC (Acetochlor 900 g/l) (34256-82-1)	
ATE ZA (oral)	2148 mg/kg bodyweight
ATE ZA (Dermal)	4002.855 mg/kg bodyweight
ATE ZA (vapours)	3.475 mg/l/4h
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	15.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 10% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 10% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Acetochlor TC (34256-82-1)	
LD50 oral rat	2148 mg/kg bodyweight
LD50 dermal rat	> 2060 mg/kg bodyweight (EPA OPP 81-2, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
LD50 dermal rabbit	4166 mg/kg
LC50 Inhalation - Rat	> 3 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 7.4 – 7.6
Serious eye damage/irritation : Causes serious eye damage.
pH: 7.4 – 7.6
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : May cause respiratory irritation.

Acetochlor TC (34256-82-1)	
STOT-single exposure	May cause respiratory irritation.

Alkylbenzene sulfonate (68953-96-8)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure.

Acetochlor TC (34256-82-1)	
	May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Acetochlor TC (34256-82-1)

LC50 - Fish [1]	0.36 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, GLP)
LC50 - Fish [2]	1.3 mg/l Bluegill Sunfish
LC50 - Other aquatic organisms [1]	2.4 mg/l Shrimps
EC50 - Crustacea [1]	8.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)
ErC50 algae	0.00052 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Experimental value, GLP)
BCF - Fish [1]	20 – 132 (Pisces)
Partition coefficient n-octanol/water (Log Pow)	4.14 (EU Method A.8: Partition Coefficient, 20 °C)
Additional ecotoxicological information	Birds: Acute oral LD50 for bobwhite quail 928, mallard ducks >2000 mg/kg. Dietary LC50 (5d) for bobwhite quail and mallard ducks >5620 mg/kg. Bees (LD50, mg/bee) >100 (oral) (48hr); >200 (contact) (48h); Worms: LC50 (14d) for earthworms 211 mg/kg.

12.2. Persistence and degradability

FarmAg Acetochlor 900 EC (Acetochlor 900 g/l) (34256-82-1)

Persistence and degradability : No additional information available

Acetochlor TC (34256-82-1)

Persistence and degradability : Not readily biodegradable in water.

12.3. Bioaccumulative potential

FarmAg Acetochlor 900 EC (Acetochlor 900 g/l) (34256-82-1)

Bioaccumulative potential : No additional information available

Acetochlor TC (34256-82-1)

BCF - Fish [1] : 20 – 132 (Pisces)
Partition coefficient n-octanol/water (Log Pow) : 4.14 (EU Method A.8: Partition Coefficient, 20 °C)
Bioaccumulative potential : Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

FarmAg Acetochlor 900 EC (Acetochlor 900 g/l) (34256-82-1)

Mobility in soil : No additional information available

Acetochlor TC (34256-82-1)

Surface tension : 46.3 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow) : 4.14 (EU Method A.8: Partition Coefficient, 20 °C)

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Acetochlor TC (34256-82-1)

Ecology - soil : Adsorbs into the soil. Not toxic to bees.

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available




SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1993	1993	1993
14.2. Proper Shipping Name		
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

SANS

Special provisions (SANS) : 223, 274
Limited quantities (SANS) : 5 L
Limited quantities (SANS) : 5 L
Packagings, large packagings and IBCs Packing instructions (SANS) : P001, IBC03, LP01
Portable tank and bulk containers instructions (SANS) : T4
Portable tank and bulk container special provisions (SANS) : TP1, TP29

IMDG

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1

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IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 01/09/2022

Full text of H-statements

H226	Flammable liquid and vapour.
H303	May be harmful if swallowed
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.