

SAFETY DATA SHEET

Acetogan 900 EC

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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Acetogan 900 EC

Pure substance/mixture Mixture

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

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302)
Skin sensitization Category 1 - (H317)
Specific target organ toxicity (single Category 3 - (H335)

exposure)

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1 - (H400)

Category 1 - (H410)

Category 4 - (H227)

Label Elements

Hazard pictograms



Signal word Warning

Hazard Statements H302 - Harmful if swallowed

> H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation

H410 - Very toxic to aquatic life with long lasting effects

H227 - Combustible liquid

P102 - Keep out of reach of children **Precautionary Statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Acetochlor	78 - 86	34256-82-1	251-899-3	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
butan-1-ol	1 - 2	71-36-3	200-751-6	Flam Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)	
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	3 - 4	90194-26-6	932-231-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	
Hydrocarbons, C9, aromatics	2 - 3	N/A	918-668-5	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	

Section 4: FIRST AID MEASURES

Page 2/9 ADAMA



First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

Flammable.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions



Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat, sparks and open flame.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
butan-1-ol		STEL: 50 ppm	STEL: 50 ppm	S*	TWA: 100 ppm
71-36-3		STEL: 154 mg/m ³	STEL: 150 mg/m ³	STEL: 50 ppm	TWA: 310 mg/m ³
		Skin		STEL: 154 mg/m ³	Ceiling / Peak: 100
					ppm
					Ceiling / Peak: 310
					mg/m³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
butan-1-ol		TWA: 20 ppm		TWA: 50 ppm	Ceiling: 50 ppm
71-36-3				TWA: 150 mg/m ³	Ceiling: 150 mg/m ³
				STEL: 75 ppm	Skin
				STEL: 230 mg/m ³	
				Skin	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
butan-1-ol	STEL 200 ppm	STEL: 50 ppm	STEL: 150 mg/m ³	Skin	TWA: 20 ppm
71-36-3	STEL 600 mg/m ³	STEL: 150 mg/m ³	TWA: 50 mg/m ³	Ceiling: 25 ppm	STEL: 25 ppm
	TWA: 50 ppm	TWA: 50 ppm	Skin	Ceiling: 75 mg/m ³	STEL: 75 mg/m ³
	TWA: 150 mg/m ³	TWA: 150 mg/m ³			Skin



Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering Controls**

Personal protective equipment

Tight sealing safety goggles. Eye/face protection

Hand Protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Suitable protective clothing. Suitable protective clothing. Apron. Gloves made of plastic or **Body Protection**

Use only with adequate ventilation. Respiratory protection

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash contaminated clothing before

reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area

No data available

Not Applicable

information

No data available

and clothing is recommended.

Do not allow into any sewer, on the ground or into any body of water. **Environmental exposure controls**

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Values Method Remarks

Appearance Physical state : Liquid : clear violet Color : Aromatic Odor

: No data available **Odor threshold** : 5.0 - 7.0

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Melting point/freezing point °C Not Applicable

Boiling point/boiling range °C : No data available

Flash point °C : 62 **Evaporation rate**

Flammability (solid, gas) : Not applicable for liquids : No data available

Upper/lower flammability or

explosive limits Vapor pressure kPa

Vapor density : No data available

Relative density 1.05 - 1.15

20 °C

Solubility(ies) mg/l Not Applicable See Section 12 for more **Partition Coefficient**

(n-octanol/water) Log Pow

Autoignition temperature °C : No data available

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C: ----Explosive properties : Not an explosive

Oxidizing properties : Not oxidizing

Other Information

Bulk density g/ml Not Applicable Surface tension mN/m No data available

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

,	Values	Species	Method	Remarks
Oral LD50 mg/kg	: 200 - 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 4000	Rabbit	OECD 402	
Inhalation LC50 mg/l/4h	: > 2.7	Rat	OECD 403	Maximum attainable concentration

Skin corrosion/irritation: Non-irritating to the skinOECD 404Serious eye damage/eye irritation: Not irritating to eyesOECD 405Respiratory/skin sensitization: Skin sensitizerOECD 406

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Acetochlor : Not classified

Carcinogenicity

Chemical Name

Acetochlor : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Acetochlor : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Acetochlor : H335 - May cause respiratory irritation

STOT - repeated exposure

Chemical Name

Acetochlor : No information available



Aspiration hazard Chemical Name

Acetochlor : No information available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : ---- No data available
Crustacea 48-hour EC50 mg/l : ---- No data available
Algae 72-hour EC50 mg/l : ---- No data available
Other plants EC50 mg/l : ---- No data available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical Name

Acetochlor : 928 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical Name

Acetochlor : > 100

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Acetochlor : No data available

Soil DT50 days Chemical Name

Acetochlor : 8 - 18

Biodegradation Chemical Name Acetochlor

Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Acetochlor : 4.14

Bioconcentration factor (BCF)

Chemical Name

Acetochlor : No data available

Mobility in soil

ADAMA Page 7/9

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u>

Chemical Name

Acetochlor : No information available Koc

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Disposal should be in accordance with applicable regional, national and local laws and

products regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetochlor)

Hazard Class 9
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetochlor)

Hazard Class9Packing GroupIIIEnvironmental hazardYes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetochlor)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code

ADAMA Page 8/9



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H332 - Harmful if inhaled

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects H304 - May be fatal if swallowed and enters airways

H411 - Toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effect

EUH066 - Repeated exposure may cause skin dryness or cracking

Revision Note

Changes made to the last version are labeled with this sign ***.

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet