



SAFETY DATA SHEET

AGCARE® Acetochlor 840

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **AGCARE® Acetochlor 840**
Other Name(s): Emulsifiable concentrate containing acetochlor 840 g/L

1.2 Recommended use of the chemical and restrictions on use

Product Use: Herbicide

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
Address: 20 Jean Batten Drive Mt Maunganui, 3116
Telephone: 0800 220 002
Email: info@grosafe.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996
HSNO Substance Approval: HSR000404

Classifications: Acute oral toxicity Category 4; Acute inhalation toxicity Category 4; Skin irritation Category 2; Eye irritation Category 2; Skin sensitisation Category 1; Specific target organ toxicity – repeated exposure Category 2; Very toxic to aquatic life with long lasting effects; Hazardous to soil organisms; Hazardous to terrestrial vertebrates.

2.2 Label elements:

Pictograms:



Signal Word: **WARNING**

Hazard statements:

| | |
|------|--------------------------------------|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |

- H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.
Hazardous to terrestrial vertebrates.

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

Precautionary statements:

Prevention

- P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe fumes/mist/vapours/spray.
P264 Wash hands and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/clothing. Wear eye protection/face protection

Response

- P101 If medical advice is needed, have product container or label at hand.
P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.

Storage

-

Disposal

- P501 Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS | Proportion % w/w |
|-------------------------------|--------------|---------------------|
| Acetochlor | 34256-82-1 | 75 |
| Dichlormid | 37764-25-3 | 5 - 15 |
| Hydrocarbon solvent, aromatic | 64742-94-5 | 1 - 5 |
| Other ingredients | Trade secret | balance |

This is a commercial product whose exact ratio of components may vary slightly.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

Ingestion: If swallowed, rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell. Have product label or SDS at hand.

Skin Contact: Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation or rash occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell.

4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray or fog, foam, CO₂ or dry chemical as appropriate for surrounding materials, Contain extinguishing media to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing, eye and hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use.

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

When applied product avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.
Do not eat, drink or smoke when using.
Use only outdoors or in well-ventilated area.
Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 100 L or more of this product requires an emergency response plan, secondary containment and signage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

| Ingredient | TWA (mg/m ³) | STEL (mg/m ³) |
|------------|--------------------------|---------------------------|
| - | | |

8.2 Engineering controls

Use in well-ventilated area or outdoors.

8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Eye/Face Protection: Wear chemical splash goggles if eye contact is possible.

Skin Protection: Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

Respirator: Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for solvents/agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Appearance | Amber coloured viscous liquid |
| Odour | Non-specific |
| Odour threshold | Not known |
| pH | 5.0 – 9.0 (c.a. 6.0 as 1% emulsion in water) |
| Melting/Freezing Point | No data available |
| Boiling Point /Range | No data available |
| Flash point | >93 °C |
| Flammability (solid, gas) | Not applicable |
| Vapour Pressure | No data available |
| Vapour density | No data available |
| Specific gravity/bulk density | c.a. 1.12 g/cc |
| Solubility | Forms emulsion in water |
| Partition Co-efficient n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | Not applicable |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Avoid storage in direct sunlight or exposure to heat.

10.4 Incompatible materials and possible hazardous reactions

Oxidising materials.

10.5 Hazardous decomposition products

Fire Decomposition: Smoke, carbon and nitrogen oxides and other unspecified compounds.

10.6 Polymerisation

Not known to occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

11.2 Toxicological information

| | |
|---|---|
| Acute toxicity: | Classified as harmful if ingested or in contact with skin or inhaled. |
| Aspiration hazard: | Product contains no components with aspiration hazard. |
| Respiratory irritation: | May be slightly irritating. |
| Skin corrosion/irritation | Classified as a mild skin irritant. |
| Serious eye damage/irritation | Not classified as a serious eye irritant. |
| Respiratory or skin sensitisation | Acetochlor is identified as a contact sensitizer. |
| Germ cell mutagenicity: | No ingredients in product identified as presumed or suspected mutagens. |
| Carcinogenicity | No ingredients in product identified as presumed or suspected carcinogens. |
| Reproductive toxicity | No ingredients in product identified suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity – single/repeated exposure | Acetochlor identified as may cause adverse effects to organs (kidney, liver, thyroid) or systems. |
| Narcotic effects | Product contains no ingredient identified as causing narcotic effects. |

11.3 Toxicological data:

| | |
|------------|---|
| Acetochlor | Oral, LD ₅₀ (rat) 1426 - 2148 mg/kg bw |
| | Dermal, LD ₅₀ (rat) 3667 mg/kg bw |
| | Inhalation, LC ₅₀ (rat) >3.85 mg/L |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as very toxic to aquatic life with long lasting effects, very toxic to the soil environment and harmful to terrestrial vertebrates.

12.2 Environmental Fate

Breakdown in soil and groundwater: DT₅₀ 14 days.

Bioaccumulation: Low bioaccumulation potential.

Partition coefficient (octanol/water): Log P 4.14 (25 °C, pH 7.0)

Soil mobility: Product disperses in water.

12.3 Ecotoxicity data:

Acetochlor

Fish: Rainbow trout LC₅₀ (96 hr) 0.36 mg/L

Crustacea: *Daphnia magna* EC₅₀ (48 h) 8.2 mg/L

Alga: *Pseudokirchneriella subcapitata* EC₅₀ (72 hr) 0.0036 mg/L

Earthworm: *Eisenia foetida* LC₅₀ (14 d) 105.5 mg/kg soil

Bird: Bobwhite quail LD₅₀ 1260 mg/kg bw

Ryegrass (*Lolium perenne*) EC₂₀ (21 d) 0.00027 mg/kg dry soil

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

13.2 Container Disposal

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

| | |
|--------------------------------------|---|
| UN Number: | 3082 |
| UN Proper Shipping Name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ACETOCHLOR 84%) |
| Transport hazard class(es) | 9 |
| Packing Group: | III |
| HAZCHEM: | 3Z |
| Special Precautions for User: | - |
| IMDG Marine pollutant: | YES |
| Transport in Bulk: | - |

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Classification) Notice 2017.

Approved substance number: HSR000404

Hazard classifications: Acute oral toxicity Category 4; Acute inhalation toxicity Category 4; Skin irritation Category 2; Eye irritation Category 2; Skin sensitisation Category 1; Specific target organ toxicity – repeated exposure Category 2; Very toxic to aquatic life with long lasting effects; Hazardous to soil organisms; Hazardous to terrestrial vertebrates.

27 July 2023

| | |
|--------------------------------|--|
| Controls: | Refer to control on www.epa.govt.nz for complete wording for variation Controls. 77A Do not apply onto or into water. |
| Additional information: | Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz) |

15.2 ACVM Act 1997

Registration number: P8578 AGCARE® Acetochlor 840

Refer to www.foodsafety.govt.nz for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

| | |
|-----------------------|-------------------------|
| SDS issued | 27 July 2023 |
| SDS supersedes | SDS dated December 2020 |
| Reason issued | Update to GHS. |

16.2 ABBREVIATIONS

| | |
|-------------------------|---|
| ADI | Acceptable Daily Intakes |
| CAS number | Chemical Abstracts Service Registry Number |
| CCID | Chemical Classification Identification Database |
| EPA | Environmental Protection Authority |
| ErC₅₀ | Half maximal Effective Concentration |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| Hazchem Code | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| HSNO | Hazardous Substances and New Organisms |
| HS | Health and Safety |
| HSR | Hazardous Substances Register |
| IARC | International Agency for Research on Cancer |
| LC₅₀ | Median Lethal Concentration |
| LD₅₀ | Median Lethal Dose |
| SDS | Safety Data Sheets |
| NOAEL | No Observable Adverse Effect Level |
| NOEL | No Observable Effect Level |
| NOS | Not otherwise specified |
| STEL | Short Term Exposure Limit |
| SWA | Safety Work Australia |
| TWA | Time-Weighted Average |
| UN Number | United Nations Number |

16.3 REFERENCES

EPA CCID and Approved Substance databases
PPDB- Pesticides Properties DataBase

16.4 OTHER

AGCARE® is a trademark of Grosafe Chemicals Ltd

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet