

1: Identification of the Substance and Supplier

Product Name ACE 840
Recommended Use Herbicide

Suppliers Details Orion AgriScience Ltd

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Telephone Number (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

Date of Issue/Revision May 2023

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:Acute Oral Toxicity (Cat. 4)

Acute Inhalation Toxicity (Cat. 4)

Skin Irritation (Cat. 2)

Eye Irritation (Cat. 2)

Skin Sensitisation (Cat. 1)

Specific Target Organ Toxicity repeated exposure (Cat.2) Hazardous to the aquatic environment acute (Cat. 1)

Hazardous to the aquatic environment chronic (Cat. 1)

Hazardous to soil organisms

Hazardous to terrestrial vertebrate

Precautionary Statements:

Prevention

Response



Warning

Hazard Statements:

H302 Harmful if swallowed

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

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

H421 Very toxic to the soil environment

H433 Harmful to terrestrial vertebrates

Keep out of reach of children. Read label before use. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. Do not eat, drink or smoke during use. Wash hands thoroughly after use. When mixing or applying, wear personal protection as described in section 8. Do not take contaminated equipment or clothing off site. Take off contaminated clothing and wash before reuse. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).

3: Composition/Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Acetochlor (active ingredient)	34256-82-1	84
Hydrocarbon Liquid	64742-74-8	<10
Other ingredients	Proprietary	Remainder

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4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

Ingestion: Rinse mouth. Seek medical advice if feeling unwell

Skin Contact: Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs, or if feeling unwell.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell.

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor: No specific antidote. Treat symptomatically
National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion: No data available

Skin Contact: Irritation. Prolonged or repeated contact may result in degreasing of the skin and dermatitis. Contact may

induce an allergic response in susceptible individuals

Eye Contact: Irritation

Inhalation: Irritation, headache, dizziness, nausea, vomiting

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-Flammable (but will be combustible in a fire)

HAZCHEM Code 3Z ERP Guide No 47

Extinguishing Media Water spray, foam, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

6: Accidental Release Measures

Personal Precautions Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in

section 8. Exclude non-essential people from the area.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean Up Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

Storage: Keep out of reach of children. Store in the original tightly closed container in a secure area.

Handling and Use: Refer to Prevention statements in section 2 above. Exclude people and animals from the application area,

both during application and for the duration of the REI.

REI Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Standards None established (Use lowest practicable level)

Engineering ControlsSelect spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

Eye Safety glasses/goggles when mixing or applying

Skin Chemical resistant overalls snugly fitting at the neck, wrist and ankle, boots and gloves

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Respiratory

Not required where vapour or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance Purple Liquid Odour Solvent like **Odour Threshold** No data available pН Not applicable Melting Point/Freezing Point No data available **Boiling Point** No data available >93°C Flash Point

No data available **Flammability Upper/Lower Flammability Limits** No data available No data available **Vapour Pressure Vapour Density** No data available 1.10 g/mL (approx.) **Relative Density** Solubility in Water Emulsifiable Partition Coefficient: n-octanol/water See section 12

No data available **Auto ignition Temperature Decomposition Temperature** No data available **Kinematic Viscosity** No data available

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous Reactions None Expected Incompatibility None Known **Hazardous Decomposition Products** None Known

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral Toxicity LD50 > 300 mg/kg **Acute Dermal Toxicity** LD50 > 2000 mg/kg **Acute Inhalation Toxicity** LD50 > 1 mg/L Skin Irritant/Corrosive Skin Irritant Eye Irritant/Corrosive Eye Irritant

Sensitisation Effects May cause an allergic skin reaction in susceptible individuals

Mutagenic Effects None **Carcinogenic Effects** None **Reproductive Effects** None

Specific Organ Toxicity Oral exposure to acetochlor at high doses is damaging to the kidneys

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

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Acute Oral LD50 (Bobwhite quail) 1260 mg/kg **Ecotoxicity** LC50 (96 hr) (Rainbow Trout) 0.36 mg/l

LC50 (48 hr) (Daphnia) 9 mg/l

Very toxic to some plant species (selective herbicide)

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Non - toxic to bees.

Persistence/degradability Biodegradable. DT50 (soil) 8 – 18 days

Bioaccumulative Potential Octanol-water partition coefficient LogP = 4.14 (High)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 156 (moderately mobile)

Environmental Exposure Limit: None established

13: Disposal Considerations

Product Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose.

14: Transport Information

Dangerous Goods

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETOCHLOR 84%))

Class

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 litres

Passenger Service Vehicle 1 litre

15 Regulatory Information

EPA Approval No
ACVM Registration No
P7218

Qualified Person
Certified Handler
Not required

Workplace Only No

Tracking Not required

Record KeepingNot required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)

Site Requirements under EPA Notice

• A hazardous substance location compliance certificate is not required

and HSWHS Regs:

• A hazardous area is not required

• Separation distances for class 3 and class 6 substances to protected places and public places is not applicable

• Fire extinguishers are not required

• Signage is required for more than 100 litres

An emergency response plan is required for more than 100 litres

Secondary containment is required for more than 100 litres

• Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not applicable

Additional Requirements Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information

Glossary

ADE Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are

expected over a lifetime of exposure

ACVM Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries

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Cat. GHS category

Ceiling A concentration that should not be exceeded at any time during any part of the working day

Certified Handler A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and

6.1B)

DT50 Time (days) for 50% reduction in concentration

EC50 Concentration required to produce an effect in 50% of organisms

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

EPA Notice Hazardous Property Controls Notice 2017

ERP Guide Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

GHS Globally harmonized system of classification and labelling of chemicals

Hazardous Substance Location For locations storing hazard substances of certain classes above threshold quantities

Compliance Certificate

Hazardous Area A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

HAZCHEM Code Emergency action code for emergency services

HSWHS Regs Health and Safety at Work (Hazardous Substances) Regulations 2017

LC50 Concentration that will kill 50% of organisms

LD50 Dose that will kill 50% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

Notification Advance notice given to neighbours and other affected parties, of details of proposed application, and

other details as described

Octanol-Water Partition Coefficient The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

Protected Place Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

Public Place A place frequented by the public, including roads (does not include private property)

Qualified PersonA requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

Record Keeping Includes a spray diary or other record of application

REI Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Separation DistancesThe distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

Signage Positioned at entrances to commercial premises providing information on the hazardous substances

present

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

Soil Organic Carbon-WaterThe ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.

Partitioning Coefficient (Koc)

The higher the value the less mobile the chemical is in soil

STEL Short term exposure level – 15 minute time weighted average

Tolerable Exposure LimitMaximum concentration limit of a substance above which persons must not be exposed

Tracking For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

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of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard
An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only

A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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