

Infosafe No™ 3NUZC	Issue Date : July 2022	ISSUED by NUFARMNZ
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 Product Name **ROUSTABOUT® 840**

1. Identification

GHS Product Identifier	ROUSTABOUT® 840
Product Code	00595
Product Type	Herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	For selective pre-emergence weed control of annual grasses and many broadleaf weeds in maize and sweetcorn.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture	DANGEROUS GOODS.
Other Information	6.1D acute toxicant, 6.3A skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause kidney or liver damage from repeated oral exposure at high doses. May cause eye irritation or mild skin irritation or sensitisation from prolonged skin contact. ECOTOXIC Very toxic to aquatic organisms. Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Acetochlor	34256-82-1	840g/L
	2, 2-dichloro-N, N-di-2-propenylacetamide	37764-25-3	<110 g/L

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water.

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Eye contact	If a large area is affected seek medical assistance. Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	None known.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Specific hazards arising from the chemical	No unusual fire and explosion hazards known.
Hazchem Code	2Z
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Thoroughly scrub floor with a strong industrial type detergent solution and rinse with water.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours. Do not allow product to drift outside the target area.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of ROUSTABOUT 840 require secondary containment and are subject to signage, and more than 100L require emergency response plans.
Other Information	Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

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Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate engineering controls	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
Personal Protective Equipment	Avoid skin and eye contact and inhalation of spray mist. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, safety goggles, waterproof gloves, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form	Liquid
Appearance	Violet Liquid
Odour	Odourless
Melting Point	Not applicable
Boiling Point	Not determined (Acetochlor = 172°C/5mm Hg)
Solubility in Water	Emulsifies
Specific Gravity	1.112
pH	5.0-9.0
Vapour Pressure	3.4 x 10 ⁻⁸ (25°C)
Flammability	Combustible.
Oxidising Properties	Not applicable
Other Information	(EC) Emulsifiable concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Decomposition Products	Thermal decomposition products include: carbon monoxide.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) = 2,148mg/kg (acetochlor)
Acute Toxicity - Dermal	LD50 (rabbit) = 4,166mg/kg (acetochlor)
Acute Toxicity - Inhalation	LC50 (rat) (4h) >3.0mg/L air (acetochlor)
Ingestion	Slightly toxic.
Inhalation	Inhalation may be harmful.
Skin	Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.
Eye	May irritate the eyes.
Skin Sensitisation	Expected to be a skin sensitizer
Reproductive Toxicity	Acetochlor did not cause birth defects in test animals.
Chronic Effects	Acetochlor is a suspected kidney toxicant. NOEL = 2mg/kg bw/day

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Serious eye damage/irritation	Irritant
Mutagenicity	Acetochlor did not cause genetic changes
Other Information	Acetochlor technical: In feeding studies with rats and mice (91-day), acetochlor produced reduced body weights. In repeat dosing studies with dogs, acetochlor produced reduced body weights and feed consumption; with liver, kidney and bone marrow effects at amounts which produced some animal deaths (119-day); or with testicular effects (1-year). Following repeated skin exposure (3-weeks) to acetochlor, skin irritation and animal deaths (only at the highest exposure level) were the primary effects in rabbits. Skin allergy was observed in guinea pigs following repeated skin exposure. Decreased body weight, reduced feed efficiency, some animal deaths, some organ weight changes, slight anaemia, eye damage, liver and kidney effects and tumours of the liver, lung and possibly histolytic sarcomas were noticed with long-term (23 month) feeding of acetochlor to mice. Decreased body weight, reduced food consumption, some animal deaths, slight anaemia, effects on liver, lung, heart, arteries, tongue and nerve tissues, and tumours of the liver, nasal turbinates and thyroid were noticed with long term (24-27 month) feeding of acetochlor to rats. Most of the tumours in rats and mice occurred only at levels of exposure which produced excessive toxicity.

12. Ecological information

Ecological Information	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. This chemical (acetochlor) demonstrates properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the ground water is shallow may result in ground water contamination. Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.
Persistence and degradability	Microbial degradation accounts for most loss from soil; DT50 8-18d for acetochlor
Mobility	Adsorbed by soil, with little leaching.
Bioaccumulative Potential	Acetochlor is not bioaccumulative
Environmental Protection	Spray drift can cause damage.
Acute Toxicity - Fish	LC50 (96h) Rainbow trout 0.36mg/L (acetochlor) NOEC Rainbow trout eggs = 0.19mg/L (acetochlor) NOEC Fathead minnow (36d) = 0.45mg/L (acetochlor)
Acute Toxicity - Daphnia	LC50 (48h) Daphnia = 8.6mg/L (acetochlor) NOEL (21d) Daphnia = 0.0221mg/L (acetochlor)
Acute Toxicity - Algae	EC50 (96h) Skeletonema costatum = 0.0034mg/L (acetochlor)
Acute Toxicity - Other Organisms	LD50 Bobwhite quail = 928mg/kg (acetochlor) LC50 (14d) Earthworms = 211mg/kg (acetochlor) LD50 (48h) Bees = >200mg/bee contact, >100mg/bee oral (acetochlor) LD50 (96h) Bees = 1,715mg/bee (acetochlor) LC50 Bobwhite quail = >5,620mg/kg (5-day dietary) (acetochlor) NOEL Mallard ducks = 30ppm (22-23w) (acetochlor)

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	PLASTIC: Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

U.N. Number 3082

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UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (acetochlor, 84%)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9473 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000404 See www.epa.govt.nz for approval controls.
Packaging & Labelling	HARMFUL - keep out of reach of children ECOTOXIC
Hazard Rating Systems	NFPA/HMIS: 2-1-1

16. Other Information

Date of preparation or last revision of SDS	July 2022
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted	5 yearly review carried out. Minor updates made. ...End Of MSDS...

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