

Infosafe No™ 3NUZC	Issue Date : October 2024	ISSUED by NUFARMNZ
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Product Name **ROUSTABOUT® 840**

Section 1 - Identification

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
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Acute oral toxicity: Category 4 Acute inhalation toxicity: Category 4 Skin corrosion/irritation: Category 2 Eye irritation Category 2 Skin sensitization: Category 1 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1 Hazardous to the terrestrial environment: Hazardous to soil organisms
Signal Word (s)	WARNING
Hazard Statement (s)	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 kidney or liver damage through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Exclamation mark, Health hazard, Environment



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and face 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.
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Precautionary Statement – Response

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
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.
P312 Call a POISON CENTER/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Precautionary Statement – Disposal

P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

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

Section 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. If a large area is affected seek medical assistance.

Eye 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.

Section 5 - Firefighting 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.

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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

Section 6 - Accidental Release Measures

Spills and 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.

Section 7 - Handling and Storage

Precautions for Safe Handling The person mixing or applying Roustabout 840 must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'.
It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.
Avoid skin and eye contact and inhalation of spray mist.
This product must not be applied onto or into water.
Do not allow drift outside the target area.
CERTIFIED HANDLER: Is not required.
TRACKING: Is not required.
RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if using 3 litres or more of Roustabout 840 within 24 hours.

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.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL) 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.

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Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Violet Liquid.
Odour	Odourless.
Melting Point	10.6°C for active ingredient acetochlor. 5.0-6.5°C for active ingredient dichlormid.
Boiling Point	172°C/5mmHg for active ingredient acetochlor. 130°C/10mmHg for active ingredient dichlormid.
Solubility in Water	Emulsifies.
Specific Gravity	1.112
pH	5.0-9.0
Vapour Pressure	3.4 x 10 ⁻⁸ (25°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = 4.14 (20°C) for active ingredient acetochlor. Kow logP = 1.84+/-0.03 (25°C) for active ingredient dichlormid.
Flash Point	160°C (Tag closed cup) for active ingredient acetochlor.
Flammability	Combustible.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Oxidising Properties	Not applicable
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(EC) Emulsifiable concentrate

Section 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.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rats) is 2148mg/kg for active ingredient acetochlor. LD50 (rats) is 2816mg/kg for active ingredient dichlormid.
Acute Toxicity - Inhalation	LC50 (rats) (4h) >3.0mg/L air for active ingredient acetochlor. LC50 (rats) (1h) >5.5mg/L air for active ingredient dichlormid.
Acute Toxicity - Dermal	LD50 (rabbits) 4166mg/kg for active ingredient acetochlor. LD50 (rabbits) >5000mg/kg for active ingredient dichlormid.
Skin Corrosion/Irritation	Causes skin irritation.
Serious Eye Damage/Irritation	Causes serious eye irritation.

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Skin Sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause kidney or liver damage through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.
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.

Section 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 active ingredient acetochlor. In soil, degradation is primarily microbial, DT50 c. 8d (27-29°C) for active ingredient dichlormid.
Mobility	Adsorbed by soil, with little leaching.
Bioaccumulative Potential	Acetochlor is not bioaccumulative.
Acute Toxicity - Fish	LC50 (96h) Rainbow trout 0.36mg/L for active ingredient acetochlor. LC50 (96h) Rainbow trout 141mg/L for active ingredient dichlormid.
Acute Toxicity - Daphnia	LC50 (48h) 8.6mg/L for active ingredient acetochlor. LC50 (48h) 161mg/L for active ingredient dichlormid.
Acute Toxicity - Algae	ErC50 (72h) green algae (Selenastrum capricornutum) 0.52µg/L for active ingredient acetochlor.
Acute Toxicity - Other Organisms	Birds: LD50 bobwhite quail 928mg/kg for active ingredient acetochlor, >10,000mg/kg diet for active ingredient dichlormid. Worms: LC50 (14d) earthworms = 211mg/kg for active ingredient acetochlor. Bees: LD50 (48h, contact) >200µg/bee, (oral) >100µg/bee for active ingredient acetochlor.

Section 13 - Disposal Considerations

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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.

Section 14 - Transport Information

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (acetochlor)

Hazard Class 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.

Section 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 and Labelling KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant 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 Various changes and updates made to the document to comply with GHS7.
...End Of MSDS...

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