

Infosafe No™ 3NU8Z	Issue Date : July 2015	ISSUED by NUFARMNZ
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 Product Name **ROUSTABOUT®**

## 1. Identification

<b>GHS Product Identifier</b>	ROUSTABOUT®
<b>Product Code</b>	00593
<b>Product Type</b>	Herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nz.nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	For selective pre-emergence weed control of annual grasses and many broadleaf weeds in maize and sweetcorn.
<b>Other Information</b>	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

<b>Other Information</b>	6.1D acute toxicant, 6.3B 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. Very toxic to the soil environment. Selective herbicide-very toxic to some plant species. Harmful to terrestrial vertebrates.
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## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Acetochlor	34256-82-1	840g/L
	Furilazole	121776-33-8	2-3%

## 4. First-aid measures

<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye contact</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical assistance.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

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## 5. Fire-fighting measures

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

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	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 require secondary containment and are subject to signage, and more than 100L require emergency response plans.
<b>Other Information</b>	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

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate engineering controls</b>	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
<b>Personal Protective Equipment</b>	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.
<b>Hygiene Measures</b>	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

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<b>Form</b>	Liquid
<b>Appearance</b>	Blue to purple liquid
<b>Odour</b>	Mild sweet odour
<b>Melting Point</b>	Not applicable
<b>Boiling Point</b>	Not determined (Acetochlor = 172°C/5mm Hg)
<b>Solubility in Water</b>	Emulsifies
<b>Specific Gravity</b>	1.107
<b>pH</b>	8.0
<b>Vapour Pressure</b>	Not determined (Acetochlor = 400+130mPa, 20°C)
<b>Flash Point</b>	>93.3°C
<b>Flammability</b>	Combustible.
<b>Oxidising Properties</b>	Not applicable
<b>Other Information</b>	(EC) Emulsifiable concentrate

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this SDS are followed.
<b>Acute Toxicity - Oral</b>	LD50 (rat) = 2148mg/kg (acetochlor) LD50 (rat) = 869mg/kg (furilazole) LD50 (rabbits) = 4166mg/kg (acetochlor)
<b>Acute Toxicity - Dermal</b>	
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) >3.0mg/L (acetochlor)
<b>Ingestion</b>	Slightly toxic.
<b>Inhalation</b>	Inhalation may be harmful.
<b>Skin</b>	Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.
<b>Eye</b>	May cause slight irritation to the eyes.
<b>Skin Sensitisation</b>	Expected to be a skin sensitizer
<b>Reproductive Toxicity</b>	Acetochlor did not cause birth defects in test animals.
<b>Chronic Effects</b>	Acetochlor is a suspected kidney toxicant. NOEL = 2mg/kg bw/day Refer to Other Information in this section.
<b>Serious eye damage/irritation</b>	Irritant
<b>Mutagenicity</b>	Acetochlor did not cause genetic changes
<b>Skin corrosion/irritation</b>	Mild irritant.
<b>Subchronic/Chronic Toxicity</b>	LOAEL (rat) 5.05mg/kg bw/day (liver) for furilazole
<b>Other Information</b>	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

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(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

<b>Ecological Information</b>	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.
<b>Ecotoxicity</b>	NOEC Rainbow trout eggs = 0.19mg/L (acetochlor) LC50 Bobwhite quail = >5620mg/kg (5-day dietary) (acetochlor) NOEL Mallard ducks = 30ppm (22-23w) (acetochlor)
<b>Persistence and degradability</b>	Microbial degradation accounts for most loss from soil; DT50 8-18d (acetochlor)
<b>Mobility</b>	Adsorbed by soil, with little leaching (acetochlor)
<b>Environmental Protection</b>	Spray drift can cause damage
<b>Acute Toxicity - Fish</b>	LC50 (96h) Rainbow trout 0.36mg/L; Bluegill sunfish 1.3mg/L (acetochlor) LC50 (96h) Rainbow trout 6.2mg/L; Bluegill sunfish 4.6mg/L (furilazole)
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) Daphnia 8.6mg/L (acetochlor) LC50 (48h) Daphnia 26mg/L (furilazole)
<b>Acute Toxicity - Other Organisms</b>	LD50 Bobwhite quail = 928mg/kg (acetochlor) LC50 (14d) Worms = 211mg/kg (acetochlor) LD50 (48h) Bees = >0.2mg/bee contact (acetochlor), >0.1mg/bee oral (acetochlor) LD50 (48h) Bees = >0.1mg/bee contact (acetochlor)

## 13. Disposal considerations

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

## 14. Transport information

<b>U.N. Number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (acetochlor, 84%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-
<b>IERG Number</b>	47



# Safety Data Sheet

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**IMO Marine Pollutant** Yes. Marine Pollutant 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.

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## 15. Regulatory information

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**National and or International Regulatory Information** Registered pursuant to the ACVM Act 1997, No. P4288  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.  
**Packaging & Labelling** Approved pursuant to the HSNO Act 1996, Approval Code HSR000385.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.  
**Hazard Rating Systems** HARMFUL-keep out of reach of children.  
ECOTOXIC  
NFPA/HMIS: 2-1-1

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## 16. Other Information

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**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 changes and updates made to the document.  
**Other Information** Supersedes SDS issued April 2009  
...End Of MSDS...

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