



1 of 5 Page:

Infosafe No™ 3NUZC Issue Date : June 2017 DRAFT by NUFARMNZ

Product Name ROUSTABOUT® 840

1. Identification

**GHS Product** 

ROUSTABOUT® 840

**Identifier** 

00595 **Product Code Product Type** Herbicide Nufarm NZ **Company Name** 

6 Manu Street, Otahuhu Address

> Auckland 2024 New Zealand Tel: 0-9-270 4150

Number **Emergency phone** 

Telephone/Fax

Fax: 0-9-270 4159 0800 651 911

number

info@nz.nufarm.com **Email** 

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.

This SDS describes, to the best of our knowledge, the properties of the **Other Information** 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

**Other Information** 

6.1D acute toxicant, 6.3A skin irritant, 6.4A eye irritant,

9.2A soil sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.3C terrestrial vertebrate toxicant, 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 Liquid

Chemical

Characterization

**Ingredients** Name CAS Proportion

> Acetochlor 34256-82-1 840g/L 2, 2-dichloro-N, 37764-25-3 <110 g/L

N-di-2-propenylacetamid

### 4. First-aid measures

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a **First Aid Measures** 

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

attention.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT **Ingestion** 

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Immediately flush body and clothes with large amounts of water. Remove Skin

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eve contact

necessary. Seek medical assistance. Remove contact lenses, if present and

Print Date: 3/07/2017 CS: 1.7.2





Page: 2 of 5

Infosafe No™ 3NUZC Issue Date : June 2017 DRAFT by NUFARMNZ

Product Name ROUSTABOUT® 840

easy to do.

Facilities storing or utilizing this material should be equipped with an First Aid Facilities

eyewash facility and safety shower.

Treat symptomatically. Advice to Doctor

5. Fire-fighting measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

extinguishing media

Hazards from None known.

Combustion **Products** 

Full protective clothing and self-contained breathing apparatus. **Special Protective** 

**Equipment for fire** 

fighters

**Specific Methods** Keep up wind. Do not allow washings to reach sewage or effluent systems.

Specific hazards arising from the

No unusual fire and explosion hazards known.

chemical

2.7 **Hazchem Code** 

Other Information Location Certificate: Not applicable

Not applicable Hazardous Atmosphere Zone: Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Wear protective clothing. Clear area of unprotected personnel. Contain spill Spills & Disposal

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 incompatabilities

**Other Information** 

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.

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

Occupational exposure limit values

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

**Appropriate** engineering controls **Personal Protective** 

Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.

Avoid skin and eye contact and inhalation of spray mist.

When opening the container, preparing spray and using the prepared spray Equipment cotton overalls buttoned to the neck and wrist, safety goggles,

Print Date: 3/07/2017 CS: 1.7.2





Page: 3 of 5

Product Name ROUSTABOUT® 840

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 Thermal decomposition products include: carbon monoxide.

Products Hazardous

Hazardous Hazardous polymerisation will not occur.

**Polymerization** 

11. Toxicological Information

Acute Toxicity - Oral LD50(rat) = 2,148mg/kg (acetochlor)

Acute Toxicity - LD50(rabbit) = 4,166mg/kg (acetochlor)

Inhalation may be harmful.

Dermal

Inhalation

Acute Toxicity - LC50(rat)(4h) > 3.0mg/L air (acetochlor)

Inhalation

**Ingestion** Slightly toxic.

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.

Reproductive

Acetochlor did not cause birth defects in test animals.

Toxicity

 $\textbf{Chronic Effects} \qquad \text{Acetochlor is a suspected kidney toxicant.} \quad \text{NOEL = 2mg/kg bw/day}$ 

Serious eye Irritant

damage/irritation

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

Print Date: 3/07/2017 CS: 1.7.2





Page: 4 of 5

Infosafe No™ 3NUZC Issue Date : June 2017 DRAFT by NUFARMNZ

Product Name ROUSTABOUT® 840

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

Adsorbed by soil, with little leaching. **Mobility** 

Bioaccumulative

Acetochlor is not bioaccumulative

**Potential** 

**Environmental** 

Spray drift can cause damage.

**Protection** 

LC50 (96h) Rainbow trout 0.36mg/L (acetochlor) **Acute Toxicity - Fish** 

NOEC Rainbow trout eggs = 0.19mg/L (acetochlor) NOEC Fathead minnow  $(\bar{3}6d) = 0.45 \text{mg/L}$  (acetochlor)

LC50 (48h) Daphnia = 8.6mg/L (acetochlor) Acute Toxicity -NOEL (21d) Daphnia = 0.0221mg/L (acetochlor) **Daphnia** 

Acute Toxicity -

EC50 (96h) Skeletonema costatum = 0.0034mg/L (acetochlor)

Algae

LD50 Bobwhite quail = 928mg/kg (acetochlor) Acute Toxicity -LC50 (14d) Earthworms = 211mg/kg (acetochlor) Other Organisms

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.

PLASTIC: Triple rinse empty container and add rinsate to spray tank. **Container Disposal** 

Recycle empty container. Otherwise crush and bury in a suitable landfill.

### 14. Transport information

3082 U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (acetochlor, 84%) **UN proper shipping** 

**Transport hazard** 

class(es)

**Hazchem Code** 2.7 **Packaging Method** 

**Packing Group** III **EPG Number** 

47 **IERG Number** 

Yes. Environmentally Hazardous Substance mark required. **IMO** Marine **Pollutant** 

Print Date: 3/07/2017 CS: 1.7.2





Page: 5 of 5

Product Name ROUSTABOUT® 840

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 Registered pursuant to the ACVM Act 1997, No. P9473
International See www.foodsafety.govt.nz for registration conditions

Regulatory Approved pursuant to the HSNO Act 1996, Approval Code HSR000404

Information See www.epa.govt.nz for approval controls.

**Labelling** ECOTOXIC

Hazard Rating NFPA/HMIS: 2-1-1

**Systems** 

Hazard Category HARMFUL \* ECOTOXIC - Keep out of reach of children

### 16. Other Information

Date of preparation Not applicable -First Issue

or last revision of

**SDS** 

 $\textbf{Contact Person/Point} \quad \texttt{IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE} \\$ 

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.

Print Date: 3/07/2017 CS: 1.7.2