

WARNING – ECOTOXIC



ravensdown

HERBICIDE

GROUP 15

Fumate

For the control of barley grass in pasture and weed control in turf, ryegrass, fodder beet and red beet

ACTIVE INGREDIENT:

Contains 500g/litre ethofumesate in the form of a suspension concentrate.



Registrant: Ravensdown Ltd

292 Main South Road
Hornby, Christchurch 8042
New Zealand
Phone: 03 353 4600

ravensdown.co.nz

BATCH:

D.O.M:

NET CONTENTS
20 Litres

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FUMATE | READ LABEL CAREFULLY BEFORE USING

This product must not be used for any purpose, or in any manner, contrary to the label unless authorised under appropriate legislation.

HAZARD CLASSIFICATION: 9.1B, 9.2A

QUALIFIED PERSON: This product must be under the control of a Qualified Person or Contractor, as per Part 4C of the Hazardous Property Controls EPA Notice.

ECOTOXICITY

Toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Do not apply directly into or onto water.

Very toxic to the soil environment.

Selective herbicide - very toxic to some plant species. Decontaminate spray equipment before use on a sensitive crop.

Beware - apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with any relevant regional air management plans. Do not allow spray drift over aquatic environments.

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children. Store in accordance with NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Stores containing 100L of FUMATE are subject to signage. More than 1000L require emergency response plans and secondary containment.

PERSONAL PROTECTION

Avoid contact with skin, eyes and inhalation of spray mist. When handling wear protective clothing such as waterproof gloves, eye protection, overalls and boots. Wash splashes of concentrate from skin and eyes immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

DISPOSAL

Triple rinse container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for disposal. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose. Dispose of product only by using according to label directions or dispose of safely at a managed landfill.

FIRST AID

If swallowed, DO NOT induce vomiting. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor if you feel unwell.

SPILLAGE

In case of spillage, wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Contain liquid spills and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

EMERGENCY RESPONSE

In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call **0800 CHEMICAL (0800 243 622)**.

SAFETY DATA SHEET

If additional safety information is required, refer to the Safety Data Sheet. For a copy contact the customer centre on 0800 100 123.

Registered pursuant to the ACVM Act 1997 P7124.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSN0 Act 1996, Code: HSRO00826.

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

Agrecovery is available on plastic containers up to 60L and for plastic or steel large drums from 61L - 1000L.

PHONE 0800 100 123
24 Hours - 7 Days



AGRECOVERY

www.agrecovery.co.nz

GENERAL INFORMATION

Before opening, carefully read warning statement, precaution instructions, first aid instructions and directions for use. Best results are obtained when weeds are not under stress. DO NOT mix with any wetting agents or surfactants. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

MIXING

Add the required quantity to the spray tank partly filled with water with the agitation system running and maintain agitation throughout filling and spraying. The spray mixture must be kept agitated before and during spraying and before spraying after a stoppage. **CAUTION: any unused spray mixture may settle out overnight.**

APPLICATION

Use conventional ground spraying equipment. Use a nozzle and pressure combination that gives a fine spray. PVC tubing may soften and swell after prolonged contact. Do not use water at or below 5 °C as crystallisation may occur.

COMPATIBILITY

May be tank mixed with products containing phenmedipham and desmedipham. Mixing with phenoxy herbicides for use on pasture is not recommended.

SPRAYER DECONTAMINATION

Always wash tank and flush equipment thoroughly with clean water after use. To avoid subsequent injury to sensitive crops, immediately after spraying thoroughly remove all traces of FUMATE from mixing and spraying equipment as follows:

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Half fill the tank with clean water and add 125g of an alkali detergent per 100 litres of water. Circulate through the system for at least 15 minutes with agitation then drain.
3. Drain the whole system.
4. Nozzles and filters should be removed and cleaned separately.
5. Finally, rinse tank thoroughly with clean water, flush through hoses and boom and allow to drain.

RESISTANCE MANAGEMENT

FUMATE contains ethofumesate, a **GROUP 15 HERBICIDE** from the benzofurane chemical group with the inhibition of lipid synthesis - not ACCase inhibition mode of action. To prevent or delay development of resistant biotypes, use FUMATE in tank mixture or rotation with herbicides of a different mode of action against the weed. Consult www.resistance.nzpps.org/ for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

SHELF LIFE

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

SOIL RESIDUES

Any crop may be sown 5 months after using FUMATE at recommended rates. Ploughing to a depth of 15cm should precede preparation and planting of the following crop.

CLOVER

Temporary suppression of clovers can be expected.

RAINFALL

Do not spray if rain is expected within 3 hours of spraying.

WITHHOLDING PERIOD

Pasture - 28 days. Do not graze stock on treated areas for 28 days after spraying.
Fodder Beet - 56 days. Do not graze stock on treated areas for 56 days after spraying.

WEED CONTROL TABLE

Susceptible	Redroot, fumitory, cleavers, chickweed, spurrey, wild portulaca, summer grass, annual poa, sow thistle.
Moderately susceptible	Fathen, black nightshade, wireweed, willow weed, speedwells, barnyard grass, wild oats, cornbind, annual nettle, shepherds purse.
Resistant	Wild radish, dead nettle, galinsoga, ryegrasses, groundsel, perennial weeds.
Controlled pre-emergence only	Cornbind, annual nettle, shepherds purse.

SITUATION FOR USE / GENERAL DIRECTIONS

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

Crop	Weeds controlled	Rate	Hand gun rate	Critical comments
Pasture	Barley grass	4L/ha in 200-400L of water per ha	400ml/100L of water	Apply after main germination, usually from April to July. Evenly grazed pasture 3-5cm high will help achieve optimum results. Raw organic matter will reduce effectiveness on stock camps. Temporary suppression of white clover will occur.
Redbeet, beetroot	Refer to weed control table	3-4L/ha in 200- 300L of water per ha		<p>Pre-sowing or pre-emergence: Apply before drilling or as soon as possible after drilling but before crop or weed emergence. The seedbed should be firm, fine and moist. If moisture is limited, shallow (2-5cm) incorporation of pre-sowing treatment may be preferred. Use the high rate where moisture is limited or the seedbed is less than ideal.</p> <p>Post-emergence: For red beet (beetroot) use 4 litres/ha on weeds from cotyledon to 2 true leaf stage. For fodder beet make two applications at 2 litres/ha in mixture with Betanal Forte at 1.5 litres/ha after the crop has two true leaves fully developed. Make the first application when weeds are from cotyledon to two true leaf stage and the second 10-14 days later. Fumate can follow a pre emergence treatment with other herbicides.</p>
Fodder beet		2L/ha in 200-300L of water per ha		
Turf ryegrass (do not apply to fine turf species)	Annual poa	4L/ha in 200-400L of water per ha	400ml/100L of water	Treat the same as for barley grass. Delay mowing for 4-5 days after spraying.
	Summer, barnyard and bristle grasses			Apply just before weed emergence in September - October. After 6-8 weeks a repeat treatment maybe necessary. Oversow with ryegrass immediately if turf contains less than 5% ryegrass.

WARRANTY AND LIMITATION

IMPORTANT: Read this notice before opening the container.

The registrant warrants that when packed the active ingredient of this product is as specified on this label within accepted analytical tolerances. The registrant gives only those other warranties that are required by law in relation to this product and limits its liability to the cost paid by the claimant for the product. The registrant declines all liability for damage resulting from the handling, storage or use of this product. The user bears the risk from the handling, storage or use of this product. The registrant is not liable for any use of this product which is contrary to the label directions given or any Act or Regulation.

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HAZARD CLASSIFICATION: 9.1B, 9.2A

QUALIFIED PERSON: This product must be under the control of a Qualified Person or Contractor, as per Part 4C of the Hazardous Property Controls EPA Notice.

ECOTOXICITY

Toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container. Do not apply directly into or onto water.

Very toxic to the soil environment.

Selective herbicide - very toxic to some plant species. Decontaminate spray equipment before use on a sensitive crop.

Beware - apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with any relevant regional air management plans. Do not allow spray drift over aquatic environments.

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children. Store in accordance with NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Stores containing 100L of FUMATE are subject to signage. More than 1000L require emergency response plans and secondary containment.

PERSONAL PROTECTION

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EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

RECORD KEEPING

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DISPOSAL

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FIRST AID

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SPILLAGE

In case of spillage, wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Contain liquid spills and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

EMERGENCY RESPONSE

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1. Drain tank, then flush tank, booms and hoses with clean water.
2. Half fill the tank with clean water and add 125g of an alkali detergent per 100 litres of water. Circulate through the system for at least 15 minutes with agitation then drain.
3. Drain the whole system.
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RESISTANCE MANAGEMENT

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RAINFALL

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WITHHOLDING PERIOD

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Fodder Beet - 56 days. Do not graze stock on treated areas for 56 days after spraying.

WEED CONTROL TABLE

Susceptible	Redroot, fumitory, cleavers, chickweed, spurry, wild portulaca, summer grass, annual poa, sow thistle.
Moderately susceptible	Fathen, black nightshade, wireweed, willow weed, speedwells, barnyard grass, wild oats, combind, annual nettle, shepherds purse.
Resistant	Wild radish, dead nettle, galinsoga, ryegrasses, groundsel, perennial weeds.
Controlled pre-emergence only	Combind, annual nettle, shepherds purse.

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Fodder beet		2L/ha in 200-300L of water per ha		
Turf ryegrass (do not apply to fine turf species)	Annual poa	4L/ha in 200-400L of water per ha	400ml/100L of water	Treat the same as for barley grass. Delay mowing for 4-5 days after spraying.
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