

WARNING
KEEP OUT OF REACH OF CHILDREN



ADAMA

ETHOSAT[®] HERBICIDE

GROUP **N** HERBICIDE

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

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 500 g/L ETHOFUMESATE in the form of a suspension
concentrate

ADAMA New Zealand Limited
Level 1, 93 Bolt Road
Tahunanui, Nelson 7011
PO Box 1799, Nelson 7040
New Zealand
Telephone 03 543 8275
www.adama.com

NET CONTENTS
1 L, 5 L, 10 L,
15 L, 20 L



REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**HAZARD CLASSIFICATIONS: 9.1B, 9.2A****PCBU RESPONSIBILITIES**

A PCBU with management or control of work using this substance must ensure that every worker who uses, handles, manufactures, or stores this hazardous substance (including hazardous waste) is, before the worker is allowed to carry out or supervise work involving those substances, provided with adequate information, training and instruction. This includes the use of personal protective equipment to be used to minimise risks to the health and safety of workers when carrying out work using this substance.

QUALIFICATIONS REQUIRED FOR APPLICATION OF CLASS 9 SUBSTANCES

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.

RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

WARNING

Toxic to aquatic organisms with long-lasting effects.
Very toxic to the soil environment.

EQUIPMENT

A PCBU with management or control of work using this substance must ensure that equipment used to handle this substance retains the substance, without leakage, at all of the temperatures and pressures at which the equipment is to be used; and dispenses or applies the substance, without leakage, at a rate and in a manner that the equipment is designed for. The PCBU must ensure that the equipment is accompanied by documentation that is readily available and readily understandable about the use and maintenance of the equipment.

STORAGE

Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.

Store in accordance with NZS 8409 Management of Agrichemicals. Secondary containment and emergency response plans are required where 1000 L or more of this product are stored. Refer to the product SDS for further information

SHELF LIFE

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PERSONAL PROTECTION

When mixing or applying wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. Remove protective clothing and wash hands, arms and face thoroughly with soap and water before meals and after work.

SPILLAGE

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing as in the Precautions box of this label to clean up spills. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

DISPOSAL

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FIRST AID

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For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

CONDITIONS OF SALE

ADAMA New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of ADAMA New Zealand Limited is limited to the replacement of the goods or (at the option of ADAMA New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to ADAMA New Zealand Limited within thirty days of delivery.



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Ethosat is a registered trademark of an ADAMA Group Company.



AGRECOVERY

EMERGENCY RESPONSE

(All hours)

Ring from anywhere in New Zealand

0800 734 607

In a Transport

Emergency

Phone 111

Police or Fire

Batch Number:

Date of Manufacture:

Bar code to be inserted



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PRODUCT INFORMATION

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ETHOSAT HERBICIDE is active pre-emergence through absorption by the emerging shoots of grass weeds and by the roots of broadleaved weeds soon after germination. Lack of soil moisture and the presence of raw organic matter will reduce or prevent pre-emergence activity.

Post-emergence treatments are initially absorbed through the foliage and later via the root. Root absorption is also affected by moisture and organic matter.

WARNING: ETHOSAT HERBICIDE is very selective in ryegrass spp. in pasture and in turf but will suppress clovers. Areas where clover production is important should not be treated with ETHOSAT HERBICIDE as temporary suppression can be expected.

ETHOSAT HERBICIDE is also selective in red beet, fodder beet and sugar beet pre- and post-emergence. Post-emergence treatment may cause some distortion to crop foliage particularly early in the season, but this does not adversely affect yield.

Protect concentrate from frost.

WEEDS CONTROLLED

SUSCEPTIBLE	INTERMEDIATE	RESISTANT
Annual poa Chickweed Cleavers Fumitory Redroot Sow thistle Spurrey Summer grass Wild portulaca	Annual nettle* Barnyard grass Black nightshade Cornbind* Fathen Shepherd's Purse Speedwells Wild oats Willow weed Wireweed	Dead nettles Galinsoga Groundsel Perennial weeds Ryegrasses Wild radish

**These weeds controlled pre-emergence only*

DIRECTIONS FOR USE

TAKE ALL REASONABLE STEPS TO ENSURE THAT THE SUBSTANCE DOES NOT CAUSE ANY SIGNIFICANT ADVERSE EFFECTS TO THE ENVIRONMENT BEYOND THE APPLICATION AREA. SPRAY DRIFT MAY CAUSE SERIOUS DAMAGE TO OTHER DESIRABLE PLANTS.

Do not apply onto or into water.



CROP	RATE	CRITICAL COMMENTS
Barley grass control in pasture	<p>Boom application: 4 L/ha in 200-400 L of water</p> <p>Gun application: 400 mL/100 L of water</p>	<p>For optimum results treat barley grass growing in moist conditions at an early growth stage but after the main germination has occurred. The normal timing is between April and July following autumn rain, but this will vary by season and region.</p> <p>Before treatment remove fallen debris (e.g. branches) and harrow large dung pats. Graze to 3-5 cm in height and allow to freshen up.</p> <p>Complete coverage of Barley grass is essential. ETHOSAT HERBICIDE will not control barley grass in the green seedhead stage. Do not apply after July. Raw organic matter on stock camps will reduce efficiency and follow up treatments may be required.</p> <p>N.B. In areas of dense barley grass, where the sward contains less than 5% ryegrass, ryegrass seed should be sown as soon as possible after spraying.</p>
Grass weed control in ryegrass turf	<p>Boom application: 4 L/ha in 200-400 L of water</p> <p>Gun application: 400 mL/100 L of water</p>	<p>Use only on ryegrass turf.</p> <p>To control annual poa follow the recommendations for barley grass control in pasture above. Do not mow treated area for 4-5 days after spraying.</p> <p>To control summer germinating annual grasses apply treatment just prior to expected germination of weeds – usually Sept-Oct. A repeat treatment may be required after 6-8 weeks. Over-sow with ryegrass following treatment of densely weed infested areas.</p>
Red beet (beetroot)	<p>Pre-sowing or pre-emergence: Apply 3-4 L/ha alone or in tank mix with GOLTIX® HERBICIDE 1-4 kg/ha or GOLTIX FLO 1-4 L/ha to improve the weed control spectrum.</p> <p>Post-emergence: Use 4 L/ha when weeds are from cotyledon to 2 true leaf stage.</p>	<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 (2-5 cm) incorporation of pre-sowing treatment may be preferred. Use the highest rate where moisture is limited or the seedbed is less than ideal.</p> <ol style="list-style-type: none"> ETHOSAT HERBICIDE can be applied post-emergence following pre-emergence treatment with other herbicides. RIFLE® may be applied post-emergence to crops previously treated with ETHOSAT HERBICIDE pre-emergence. Any crop may be sown 5 months after a single application of ETHOSAT HERBICIDE at recommended rates. Ploughing to a minimum depth of 15 cm should precede seedbed preparation for following crops.
Fodder beet, sugar beet	<p>Pre-emergence: Apply 2–3 L/ha alone or in tank mix with GOLTIX HERBICIDE 1-4 kg/ha or GOLTIX FLO 1-4 L/ha to improve the weed control spectrum.</p> <p>Post-emergence: Make 2 applications at 2 L/ha in mixture with RIFLE at 1.5 L/ha after the crop has 2 true leaves fully developed. Make the first application when weeds are from cotyledon to 2 true leaf stage and the second 10-14 days later.</p>	<p>A water rate of 200-300 L of water per hectare should be used at all application timings.</p>

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.



WITHHOLDING PERIODS

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

APPLICATION EQUIPMENT

Thorough and even application is essential. Apply only through properly calibrated boom spraying or handgun equipment. Do not use impact nozzles or broadcast nozzle cluster equipment. Non-reinforced PVC tubing may soften or swell after prolonged contact. Thoroughly clean sprayer after use with water and detergent. Spray out completely and rinse twice with clean water. Open tank lid and remove nozzles to allow access to air.

MIXING

Use only clean water which is above 5° C temperature. Do not add surfactants. Add the required amount to the partly filled spray tank with the agitator operating. Complete filling tank with water and use immediately, maintaining agitation until spraying is complete.

RAINFALL

Do not spray when rain is imminent or falling. Slight rain following or heavy dew prior to spraying will not reduce the effect providing it does not wash the chemical off the foliage.

RESISTANCE MANAGEMENT

ETHOSAT HERBICIDE contains the GROUP N Benzofurane herbicide, ethofumesate. Unless directed, do not use another product containing a herbicide in the same group in conjunction with ETHOSAT HERBICIDE, and where possible alternate the types of herbicides used within any one paddock over time. Herbicides from different group codes should either be used alternately or mixed together to prevent the numbers of resistant individuals building up. Since the occurrence of resistant weeds is difficult to detect prior to use ADAMA New Zealand Ltd accepts no liability for losses that may result from the failure of this product to control resistant weeds.

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NET CONTENTS

200 L



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MIX THOROUGHLY BEFORE USE.**

HAZARD CLASSIFICATIONS: 9.1B, 9.2A



PCBU RESPONSIBILITIES

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**These weeds controlled pre-emergence only*

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CROP	RATE	CRITICAL COMMENTS
Barley grass control in pasture	<p>Boom application: 4 L/ha in 200-400 L of water</p> <p>Gun application: 400 mL/100 L of water</p>	<p>For optimum results treat barley grass growing in moist conditions at an early growth stage but after the main germination has occurred. The normal timing is between April and July following autumn rain, but this will vary by season and region.</p> <p>Before treatment remove fallen debris (e.g. branches) and harrow large dung pats. Graze to 3-5 cm in height and allow to freshen up.</p> <p>Complete coverage of Barley grass is essential. ETHOSAT HERBICIDE will not control barley grass in the green seedhead stage. Do not apply after July. Raw organic matter on stock camps will reduce efficiency and follow up treatments may be required.</p> <p>N.B. In areas of dense barley grass, where the sward contains less than 5% ryegrass, ryegrass seed should be sown as soon as possible after spraying.</p>
Grass weed control in ryegrass turf	<p>Boom application: 4 L/ha in 200-400 L of water</p> <p>Gun application: 400 mL/100 L of water</p>	<p>Use only on ryegrass turf.</p> <p>To control annual poa follow the recommendations for barley grass control in pasture above. Do not mow treated area for 4-5 days after spraying.</p> <p>To control summer germinating annual grasses apply treatment just prior to expected germination of weeds – usually Sept-Oct. A repeat treatment may be required after 6-8 weeks. Over-sow with ryegrass following treatment of densely weed infested areas.</p>
Red beet (beetroot)	<p>Pre-sowing or pre-emergence: Apply 3-4 L/ha alone or in tank mix with GOLTIX® HERBICIDE 1-4 kg/ha or GOLTIX FLO 1-4 L/ha to improve the weed control spectrum.</p> <p>Post-emergence: Use 4 L/ha when weeds are from cotyledon to 2 true leaf stage.</p>	<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 (2-5 cm) incorporation of pre-sowing treatment may be preferred. Use the highest rate where moisture is limited or the seedbed is less than ideal.</p> <ol style="list-style-type: none"> 1. ETHOSAT HERBICIDE can be applied post-emergence following pre-emergence treatment with other herbicides. 2. RIFLE® may be applied post-emergence to crops previously treated with ETHOSAT HERBICIDE pre-emergence. 3. Any crop may be sown 5 months after a single application of ETHOSAT HERBICIDE at recommended rates. Ploughing to a minimum depth of 15 cm should precede seedbed preparation for following crops.
Fodder beet, sugar beet	<p>Pre-emergence: Apply 2–3 L/ha alone or in tank mix with GOLTIX HERBICIDE 1-4 kg/ha or GOLTIX FLO 1-4 L/ha to improve the weed control spectrum.</p> <p>Post-emergence: Make 2 applications at 2 L/ha in mixture with RIFLE at 1.5 L/ha after the crop has 2 true leaves fully developed. Make the first application when weeds are from cotyledon to 2 true leaf stage and the second 10-14 days later.</p>	<p>A water rate of 200-300 L of water per hectare should be used at all application timings.</p>

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.



WITHHOLDING PERIODS

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

APPLICATION EQUIPMENT

Thorough and even application is essential. Apply only through properly calibrated boom spraying or handgun equipment. Do not use impact nozzles or broadcast nozzle cluster equipment. Non-reinforced PVC tubing may soften or swell after prolonged contact. Thoroughly clean sprayer after use with water and detergent. Spray out completely and rinse twice with clean water. Open tank lid and remove nozzles to allow access to air.

MIXING

MIX THOROUGHLY BEFORE USE. This can be achieved by stirring or rolling the drum.

Use only clean water which is above 5° C temperature. Do not add surfactants. Add the required amount to the partly filled spray tank with the agitator operating. Complete filling tank with water and use immediately, maintaining agitation until spraying is complete.

RAINFALL

Do not spray when rain is imminent or falling. Slight rain following or heavy dew prior to spraying will not reduce the effect providing it does not wash the chemical off the foliage.

RESISTANCE MANAGEMENT

ETHOSAT HERBICIDE contains the GROUP N Benzofurane herbicide, ethofumesate. Unless directed, do not use another product containing a herbicide in the same group in conjunction with ETHOSAT HERBICIDE, and where possible alternate the types of herbicides used within any one paddock over time. Herbicides from different group codes should either be used alternately or mixed together to prevent the numbers of resistant individuals building up. Since the occurrence of resistant weeds is difficult to detect prior to use ADAMA New Zealand Ltd accepts no liability for losses that may result from the failure of this product to control resistant weeds.

CONDITIONS OF SALE

ADAMA New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of ADAMA New Zealand Limited is limited to the replacement of the goods or (at the option of ADAMA New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to ADAMA New Zealand Limited within thirty days of delivery.



ADAMA

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