

DANGER

KEEP OUT OF REACH OF CHILDREN



ADAMA

KARMEX[®] DF HERBICIDE

GROUP	C2	HERBICIDE
--------------	-----------	------------------

For long term non-selective control of most annual and some perennial weeds and selective weed control in established grapes, asparagus, kiwifruit and apples

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 800 g/kg DIURON in the form of a water dispersible granule

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:
**2 kg, 2.5 kg,
11.34 kg**

REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.

HAZARD CLASSIFICATIONS: 6.1D, 6.3B, 6.7B, 6.8B, 6.9A, 9.1A, 9.2A, 9.3B



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.

DANGER

Harmful if swallowed.

Causes mild skin irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated oral exposure.

Very toxic to aquatic life.

Very toxic in the soil environment.

Toxic to terrestrial vertebrates.

HANDLING PRECAUTIONS

Keep out of reach of children.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust or spray mist.

Use personal protective equipment as required.

Wash exposed skin thoroughly after handling.

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 locked up in the original, tightly closed 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 100 L or more of this product are stored. Refer to the product SDS for further information.

PERSONAL PROTECTION

When mixing or applying wear appropriate protective clothing including impervious, elbow-length gloves and eye protection. Remove protective clothing and wash hands, arms and face 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 personal protection section of this label to clean up spills. Shovel

or sweep up and dispose of waste safely in an approved facility.

DISPOSAL

Container Disposal – Ensure container is empty. Crush and bury in a suitable landfill or other approved facility. Avoid contamination of any water supply with product or empty container.

Product Disposal - Dispose of this product only by using according to the label or through the Agrecovery® Chemical Recovery service or other approved facility.

FIRST AID

If medical advice is needed, have product container or label at hand.

For advice, or if you are exposed or concerned or feel unwell, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

IF SWALLOWED: Rinse mouth. Call a poison centre or doctor if you feel unwell.

IF ON SKIN: If skin irritation occurs, get medical attention.

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

Registered to and distributed by:

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

Registered pursuant to the ACVM Act 1997, No. P000008
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR000228
See www.epa.govt.nz for approval controls

Karmex is a registered trademark of an ADAMA Group of Company.



EMERGENCY RESPONSE

(All hours)

Ring from anywhere in New Zealand

0800 734 607

In a Transport
Emergency
Phone 111
Police or Fire

Batch No.
Date of Manufacture

Insert bar code

DANGER

KEEP OUT OF REACH OF CHILDREN



ADAMA

KARMEX[®] DF HERBICIDE

GROUP	C2	HERBICIDE
--------------	-----------	------------------

For long term non-selective control of most annual and some perennial weeds and selective weed control in established grapes, asparagus, kiwifruit and apples

READ THIS BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 800 g/kg DIURON in the form of a water dispersible granule

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:
**2 kg, 2.5 kg,
11.34 kg**

READ THIS BOOKLET COMPLETELY BEFORE MIXING OR APPLYING.**HAZARD CLASSIFICATIONS: 6.1D, 6.3B, 6.7B, 6.8B, 6.9A, 9.1A, 9.2A, 9.3B****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.

DANGER**Harmful if swallowed.****Causes mild skin irritation.****Suspected of causing cancer.****Suspected of damaging fertility or the unborn child.****Causes damage to organs through prolonged or repeated oral exposure.****Very toxic to aquatic life.****Very toxic in the soil environment.****Toxic to terrestrial vertebrates.****HANDLING PRECAUTIONS**

Keep out of reach of children.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust or spray mist.

Use personal protective equipment as required.

Wash exposed skin thoroughly after handling.

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 locked up in the original, tightly closed 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 100 L or more of this product are stored. Refer to the product SDS for further information.

PERSONAL PROTECTION

When mixing or applying wear appropriate protective clothing including impervious, elbow-length gloves and eye protection. Remove protective clothing and wash hands, arms and face 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 personal protection section of this label to clean up spills. Shovel

or sweep up and dispose of waste safely in an approved facility.

DISPOSAL

Container Disposal – Ensure container is empty. Crush and bury in a suitable landfill or other approved facility. Avoid contamination of any water supply with product or empty container.

Product Disposal - Dispose of this product only by using according to the label or through the Agrecovery® Chemical Recovery service or other approved facility.

FIRST AID

If medical advice is needed, have product container or label at hand.

For advice, or if you are exposed or concerned or feel unwell, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

IF SWALLOWED: Rinse mouth. Call a poison centre or doctor if you feel unwell.

IF ON SKIN: If skin irritation occurs, get medical attention.

SAFETY DATA SHEET

A Safety Data Sheet for this product is available at www.adama.com or from ADAMA New Zealand Limited on request. Call 03 543 8275.

PRODUCT INFORMATION

KARMEX DF HERBICIDE is absorbed by foliage and roots to ensure quick knockdown. It translocates from roots to foliage and inhibits photosynthesis.

Non-selective weed control: KARMEX DF HERBICIDE is an effective general herbicide for the control of many annual and perennial grasses and herbaceous weeds on non-cropland areas where bare ground is desired. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall and other conditions. KARMEX DF HERBICIDE may be used at any time for non-cropland weed control, providing adequate moisture is supplied by rainfall or artificial means. Best results are obtained if applied shortly before weed growth begins.

Selective use in crops: Any well-established weeds should first be eliminated by mechanical or other means. For best results, the soil should be well prepared and as free as possible from trash and clods. Unless otherwise directed, the surface of the soil should not be cultivated or disturbed after application as efficacy may be reduced and/or crop injury may result. Sufficient moisture in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds.

Susceptible weeds: KARMEX DF HERBICIDE controls weeds such as Crab Grass, Fat Hen, Amaranthus, Annual Poa, Spurrey, Wild Portulaca, Black Nightshade, Buttercups, Henbit, Willow Weed, Shepherds Purse and Scarlet Pimpernel. Weeds not controlled include Plantains, Speedwells, Paspalum and Sorrel. If these weeds are a problem add POLARIS 360 HERBICIDE, POLARIS 450 HERBICIDE or POLARIS ACCELERATE HERBICIDE and ADAMA METSULFURON HERBICIDE to the spray mix.

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. PREVENT SPRAY DRIFT AS IT MAY CAUSE SEVERE DAMAGE TO NON-TARGET PLANTS

Do not apply directly onto or into water.

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.

NON-SELECTIVE WEED CONTROL

CROP OR SITUATION	WEEDS CONTROLLED	RATE		CRITICAL COMMENTS
		Boom spray	Knapsack	
Non-cropland areas such as roadsides, bridge approaches, industrial plant sites, railways and around farm buildings	Most weeds including many annual and perennial grasses and herbaceous weeds	10 – 20 kg/ha	1.5 kg in 100 L of water	Use the lower rate on light soils and the higher rate on soils high in clay or organic content. For application by handgun mix 1.5 kg KARMEX DF HERBICIDE in 100 L of water. For small areas mix 1 capful of KARMEX DF HERBICIDE in 10 L of water. A well maintained, accurately calibrated boom sprayer or handgun can be used to apply KARMEX DF HERBICIDE, use sufficient water to provide thorough and uniform coverage of the ground, 200-450 L/ha for boom spraying or 1000 L/ha when gun spraying.
		20 kg/ha		For irrigation ditches apply during the non-crop season, and when ditch is not in use. Application to drains, ditches and irrigation channels must only be made when these waterways are dry and at least two months are allowed to elapse before the channels are used for carrying water. Do not treat any ditch area into which roots of trees or other desirable plants may extend.

SELECTIVE USE IN CROPS

CROP	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Grapes	Most weeds including many annual and perennial grasses and herbaceous weeds.	Light soils: 2–3 kg/ha Heavy soils: 3–7 kg/ha	Apply only to established vineyards (at least three years old) as a band application to grape rows. On light, sandy soils use the lower rate (of area actually sprayed) and on soils high in clay or organic matter use the higher rate. Apply just prior to germination and growth of annual weeds, usually after the first cultivation in the spring.
Kiwifruit		Light soils: 2 kg/ha Heavy soils: 3–4 kg/ha	Apply only to established vines (at least two years old) as a band application. On light soils use the lower rate (of area actually sprayed) and on heavier soils use the higher rate. Apply just prior to germination and growth of annual weeds. On established weeds add a knockdown herbicide.
Apples		Light soils: 2 kg/ha Heavy soils: 3–4 kg/ha	Apply only to crops that are at least two years old. On light soils use the lower rate (of area actually sprayed) and on heavier soils use the higher rate. Apply just prior to germination and growth of annual weeds. On established weeds add a knockdown herbicide.
Asparagus – established		Light soils: 1–2 kg/ha Heavy soils: 2–4.5 kg/ha	On light, sandy soils and other soils low in clay or organic matter, use the lower rate (of area actually sprayed). On soils high in clay or organic matter, use the higher rate. Apply as a band or blanket spray prior to the cutting season before weeds have become established. A second application may be made immediately following completion of harvest if rainfall is expected. When two applications are made in a season, do not exceed 3 kg/ha per application.
Asparagus - seedlings		1–2 kg/ha	Apply before emergence. Do not exceed 2 kg/ha.

MIXING

Carefully weigh proper amount of KARMEX DF HERBICIDE and mix into necessary volume of water. Water only serves as a carrier. Material must be kept in suspension at all times by continuous agitation.

APPLICATION

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Application should be to the surface of the ground by fixed boom sprayers properly calibrated to a constant speed and rate of delivery. Use sufficient water (280 – 450 L/ha of area actually sprayed) to provide thorough and uniform coverage of the ground. Spray booms must be shut off while starting, turning, slowing or stopping or injury to the crop may result. Except for small areas, use fixed-boom power sprayers properly calibrated to ensure constant rate of application. Openings in screens should be equal to or larger than 300 micrometres. Agitate by mechanical or hydraulic means in the spray tank. If by-pass or return line is used it should terminate at bottom of tank to minimise foaming.

For general weed control in small areas, use a knapsack sprayer; shake or stir frequently.

RESISTANCE MANAGEMENT

KARMEX DF HERBICIDE contains the GROUP C2 urea herbicide, diuron. Do not use another product containing a herbicide in the same group in conjunction with KARMEX DF 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. Refer to <https://resistance.nzpps.org/> for further resistance management advice.

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.



Registered to and distributed by:
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

Registered pursuant to the ACVM Act 1997, No. P000008
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR000228
See www.epa.govt.nz for approval controls

Karmex and Polaris are registered trademarks of an ADAMA Group of Company.