

HARMFUL

KEEP OUT OF REACH OF CHILDREN

ECOTOXIC

KARMEX[®] DF
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.

NET CONTENTS

ADAMA New Zealand Limited
Level 1, 19 Elms Street,
Wakatu Estate
Stoke 7011 New Zealand
PO Box 1799
Nelson 7040 New Zealand

2 kg

2.5 kg

11.34 kg

Telephone 03 543 8275
Facsimile 03 5473 8274

Refer to booklet for full label instructions.

HAZARD CLASSIFICATIONS

Classifications 6.1D, 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.2A, 9.3C



ECOTOXIC

APPROVED HANDLER - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor

RECORD KEEPING - Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

TOXICITY

Harmful – Keep out of reach of children.

May be harmful if swallowed, inhaled or absorbed through the skin.

May cause mild skin irritation and eye irritation.

Warning – May cause reproductive/development damage from repeated oral exposure. May cause liver damage from repeated oral exposure at high doses.

ECOTOXICITY

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Very toxic in the soil environment. Harmful to terrestrial vertebrates. Do not allow spray drift outside the target area.

HANDLING PRECAUTIONS

Keep out of reach of children.

Avoid skin and eye contact. Avoid breathing dust or spray mist. Do not eat, drink or smoke while using. When mixing or applying wear waterproof gloves, hat, overalls and footwear.

Wash hands and face before meals and after work.

Equipment

Apply using accurately calibrated and maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

Storage

Store in original container, tightly closed and under lock and key. Do not store with Class 1, 2, 3.2, 4 or 5 substances or feed, seeds or foodstuffs. Stores containing more than 100 kg of this product require secondary containment and are subject to signage. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. See Safety Data Sheet for further information.

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.

Protective Clothing

When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, 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. appropriate protective clothing as in the Precautions box of this label to clean up spills. Shovel or sweep up and dispose of waste safely in an approved landfill.

Wear

Disposal

Container Disposal – Ensure container is empty. Burn, if circumstances, especially wind direction permit, otherwise bury in an approved landfill. Do not reuse container. Dispose of this product only by using according to this label. Always follow local authority requirements.

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FIRST AID

If swallowed, do NOT induce vomiting. Give nothing by mouth. Take to hospital without delay.
 Skin: Remove contaminated clothing and wash affected areas of skin. Do not scrub the skin. Get medical attention if irritation persists.
 Eyes: Hold lids open and flush with running water for at least 15 minutes. Take to hospital without delay.
 If inhaled, remove to fresh air. Take to hospital without delay. **For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.**

SAFETY DATA SHEET

A Safety Data Sheet for this product is available from ADAMA New Zealand Limited on request.
 543 8275.

Call 03

BEWARE: Apply this product carefully. Spray drift may cause serious damage to desirable plants. A strategy to minimise spray drift should be employed at all times when applying spray near aquatic environments.

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

DIRECTIONS FOR USE

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Carefully weigh proper amount of KARMEX DF 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. 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.

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 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.

| 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 litres 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 in 100 litres of water. For small areas mix 1 capful of KARMEX DF in 10 litres of water. A well maintained, accurately calibrated boom sprayer or handgun can be used to apply KARMEX DF, use sufficient water to provide thorough and uniform coverage of the ground, 200-450 litres per hectare for boom spraying or 1000 litres per hectare when gun spraying. |
| Irrigation and drainage ditches | | 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. |

Susceptible Weeds

KARMEX DF 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, POLARIS 450 or POLARIS PLUS and ADAMA METSULFURON HERBICIDE to the spray mix.

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, 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. 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 litres/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.

| 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. |

IT IS AN OFFENCE FOR USERS OF THIS PRODUCT TO CAUSE RESIDUES EXCEEDING THE RELEVANT MRL IN THE NEW ZEALAND (MAXIMUM RESIDUES LIMITS OF AGRICULTURAL COMPOUNDS) FOOD STANDARDS.

RESISTANT WEEDS WARNING

Naturally occurring weed biotypes resistant to triazine herbicides can become more prevalent after many years of continuous use. To delay the onset of, or control resistant weeds, use in rotation with herbicides of different mode of action. 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

Registered to:

ADAMA New Zealand Limited
Level 1, 19 Elms Street,
Wakatu Estate
Stoke 7011, New Zealand
PHONE 03 543 8275
www.adama.com

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

Approved pursuant to the HSNO Act 1996, Approval No. HSR000228
See www.ermanz.govt.nz for registration conditions

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