

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**



**ADAMA**

**KARMEX<sup>®</sup> 900**

**GROUP 5 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, certain flower bulbs and strawberries grown in polythene**

**READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING**

**Active Ingredient:**

Contains 900 g/kg DIURON in the form of a water dispersible granule

UN No:  
Class-primary  
Packing group  
Proper shipping name:

Marine pollutant:

Batch number:  
Date of Manufacture:  
**Barcode to be inserted**



3077  
9  
III  
ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (Contains Diuron)  
YES

NET CONTENTS: 2 – 15 kg


**REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**

**DANGER**

Harmful if swallowed. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to the liver from prolonged or repeated oral exposure. Very toxic to aquatic life with long lasting effects. Very toxic in the soil environment. Harmful to terrestrial vertebrates.

**HANDLING PRECAUTIONS**

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke while using this product. Do not breath dust or spray mist. Use personal protective equipment as specified in the personal protection section below. Wash exposed skin thoroughly after handling. Avoid unintended release into the environment. Collect spillages.

**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 ECOTOXIC SUBSTANCES**

Anyone who mixes, loads, or applies this product, 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.*

**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 original container. Do not store with Class 1 or 5 substances, feed, seeds or foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Signage, 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.

**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.

**PERSONAL PROTECTION**

Full personal protective clothing comprising coveralls buttoned to the neck, gloves impervious to the substance, hood, visor, sturdy covered footwear and a respirator **MUST** be worn when mixing, loading or applying this substance. 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 protective clothing section of this label to clean up spills. Shovel or sweep up and dispose of waste safely in an approved landfill. Absorb liquid 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**

**Container Disposal** – Ensure packaging is completely empty and crush and bury in a suitable landfill. 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.

**Do not burn product or container.**

**SAFETY DATA SHEET**

A safety data sheet for this product is available at [www.adama.com](http://www.adama.com).

**FIRST AID**

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

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

**IF SWALLOWED:** Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

**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:

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Registered pursuant to the ACVM Act 1997, No. P009491  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR101085  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

Karmex is a registered trademark of an ADAMA Group Company.



**EMERGENCY RESPONSE**

(All hours)

Ring from anywhere in New Zealand  
**0800 734 607**



In a Transport  
Emergency  
Phone 111  
Police or Fire

## PRODUCT INFORMATION

KARMEX 900 is absorbed by foliage and roots to ensure quick knockdown. It translocates from roots to foliage and inhibits photosynthesis.

KARMEX 900 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 a suitable knockdown spray 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.**

### HSNO Additional Controls:

- This substance must not be applied into or onto water, or to any watercourses, drain, or irrigation channel through which water flows, whether continuously or intermittently.
- Apply only by ground-based methods, using a low boom with a minimum droplet size of coarse spray droplets (as classified by the American Society of Agricultural & Biological Engineers (ASABE) droplet size classification scheme).
- Do not apply at rates greater than 4 kg/ha per application.
- Do not apply more than 2 times per 365-day period, with a minimum interval of 90 days between applications.
- Full PPE and respiratory protection must be worn when mixing, loading or applying this substance.

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Carefully weigh proper amount of KARMEX 900 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.

## 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. 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. Otherwise injury to the crop may result.



CROP	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
<b>Grapes</b>	Most weeds including many annual and perennial grasses and herbaceous weeds	Light soils: 1.8–2.7 kg/ha	Apply only to established vineyards (at least 3 years old) as a band application to grape rows. On light, sandy soils use the lower rate (of area actually sprayed). 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.
<b>Kiwifruit</b>		Light soils: 1.8 kg/ha Heavy soils: 2.7–3.6 kg/ha	Apply only to established vines (at least 2 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.
<b>Apples</b>		Light soils: 1.8 kg/ha Heavy soils: 2.7–3.6 kg/ha	Apply only to crops that are at least 2 years old. On light soils use the lower rate (of area actually sprayed). On heavier soils use the higher rate. Apply just prior to germination and growth of annual weeds. On established weeds add a knockdown herbicide.
<b>Asparagus established</b>		Light soils: 0.9–1.8 kg/ha Heavy soils: 1.8–4 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.
<b>Asparagus seedlings</b>		0.9–1.8 kg/ha	Apply before emergence. Do not exceed 2 kg/ha.
<b>Bulbs: gladiolus, narcissus, tulip and iris</b>		1.8 kg/ha	Apply after the bulbs have been planted and before the emergence of the tips. Do not apply post-emergence or injury may result.
<b>Strawberries</b>		1.8 kg/ha	Apply only to strawberries grown in polythene. Do not make broadcast application. Make 1 application per year between rows after transplanting before weeds emerge or before mulching.

**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.**

#### RESISTANCE MANAGEMENT:

KARMEX 900 contains the GROUP 5 inhibitor of photosynthesis at photosystem II herbicide diuron. Do not use another product containing an herbicide in the same group in conjunction with KARMEX 900. Where possible alternate the types of herbicides used within any one paddock over time. Herbicides from different groups 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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