

DANGER
KEEP OUT OF REACH OF CHILDREN



PENDIMETHEX[®]

HERBICIDE

GROUP K1 HERBICIDE

**For the control of annual grasses and broadleaf weeds in
carrots, forest nurseries, certain fruit crops, transplanted
lettuce, maize, onions and peas**

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 330 g/L PENDIMETHALIN in the form of an emulsifiable
concentrate, also contains 539 g/L HYDROCARBON LIQUID

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
**10 L, 20 L,
110 L**

ADAMA

REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**HAZARD CLASSIFICATIONS: 3.1C, 6.1E, 6.3A, 8.3A, 6.9B, 9.1A, 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

A PCBU with management or control of the substance must ensure that a written record is kept of each application of this substance. This record must include the product name, date and time of each application, amount of substance applied, location where the substance was applied, wind speed and direction and electronic data files indicating the application area (if applied by air), and details of measures taken to ensure no adverse effects beyond the boundary of the application area.

DANGER

Flammable liquid and vapour.

May be harmful if swallowed, in contact with skin, or inhaled.

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

ECOTOXICITY

Very toxic to aquatic life with long lasting effects. Do not apply onto or into water. Avoid contamination of any water supply with product or empty container.

Very toxic to the soil environment.

HANDLING PRECAUTIONS

Keep out of reach of children.

Keep away from heat, sparks, flames and hot surfaces. No smoking.

Take precautionary measures against static discharge.

Do not eat, drink or smoke while using.

Do not breathe spray mist, fumes or vapours.

Use personal protective equipment as described in the personal protection section of this label.

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 in the original, tightly closed container in a cool, dry, well-ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. Do not store with class 1, 2, 3.2, 4 or 5 substances. Use explosion proof electrical fixtures and non-sparking tools.

Store in accordance with NZS 8409 Management of Agrichemicals. Secondary containment and emergency response plans are required where greater than 100 L of this product are stored. Where 500 L or more of this substance are stored two fire extinguishers must be present. In case of fire use dry chemical, water spray, foam, carbon dioxide for extinction. Refer to the product SDS for further information.

TRANSPORT

Do not carry packs greater than 10 L of this substance on a passenger service vehicle.

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

When mixing or applying wear appropriate protective clothing including safety goggles or face shield, cotton overalls buttoned to the neck and wrist, chemical resistant elbow-length gloves, and chemical resistant boots. 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. 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

Container Disposal - Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture 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.

FIRST AID

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

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

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

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse.

IF IN EYES: Remove immediately all contaminated clothing. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.

IF INHALED: 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.



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Label

Pendimethex 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

Batch Number:
Date of Manufacture:

Bar code to be inserted

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IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.

SAFETY DATA SHEET

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

PRODUCT INFORMATION

PENDIMETHEX HERBICIDE is a selective herbicide recommended for use in carrots, forest nurseries, certain fruit crops, transplanted lettuce, onions, peas and in combination with atrazine and alachlor for the control of annual grasses and broadleaf weeds in maize. **DO NOT USE ON SWEETCORN OR CROPS GROWN FOR SEED.**

Following application of PENDIMETHEX HERBICIDE to the soil, and its absorption by the plant, both root and shoot growth are inhibited in susceptible plants. Affected plants die shortly after germination or following emergence from the soil. PENDIMETHEX HERBICIDE will not control perennial or established weeds. In maize a mixture of PENDIMETHEX HERBICIDE and atrazine when applied early post-emergence will also control broadleaf weeds up to the two true leaf stage and certain annual grass weeds up to 1 to 1 ½ leaf stage. Weed control with PENDIMETHEX HERBICIDE may be reduced where soil organic matter exceeds 6%. Approximately 12 mm of rainfall or irrigation within 10 days of application is required for optimum performance. Reduced weed control can be expected when used under dry soil conditions.

FOLLOWING CROP RESTRICTIONS

Under prolonged dry conditions or prolonged cold wet conditions certain crops are susceptible to injury when planted in soil previously treated with PENDIMETHEX HERBICIDE. Do not plant sensitive grasses (such as ryegrass), cucurbits or beets for at least 6 months following PENDIMETHEX HERBICIDE application.

WEEDS CONTROLLED BY PENDIMETHEX HERBICIDE

Barnyard grass**	Fathen	Scarlet pimpernel	Storksbill*
Black nightshade	Field pansy	Shepherds purse*	Summer grass**
Bristle grass**	Fumitory	Speedwell	Wild oats*
Chickweed	Henbit	Spurrey	Wireweed
Cornbind*	Redroot*	Stinking mayweed*	Witch grass**

* These weeds controlled under favourable conditions or by using higher rates.

** Additional weeds controlled by a combination of PENDIMETHEX HERBICIDE and atrazine (maize 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.

SOIL PREPARATION (seeded and transplanted crops)

Prepare the seedbed with a fine, firm tilth free of ridges, clods or trash. The seed should be sown so that after consolidation it is covered by a minimum of 30 mm of settled soil for maize and peas and 15 mm for onions and carrots. Do not disturb the soil by rolling or harrowing after PENDIMETHEX HERBICIDE has been applied.

CROP	RATE L/HA	CRITICAL COMMENTS
Carrots	3-5 L	Apply pre-emergence of the crop and weeds. Use the higher rate on soils high in organic matter or clay content.
Forest nurseries PRE CROP EMERGENCE Eucalyptus botryoides, E fastigata, E.globulus, E.nitens, E.saligna, macrocarpa, radiata pine	4 L	Apply PENDIMETHEX HERBICIDE in 500 L of water/ha as soon as possible after sowing. Do not apply as the crop is emerging.
Tasmanian blackwood, wattle (black, green, silver)	3 L	
Forest nurseries POST CROP EMERGENCE Eucalyptus globulus, radiata pine	4 L	Apply in 500 L water/ha 6-8 weeks after crop emergence. Post crop emergence applications will not control established weeds, but will extend the period of residual weed control.
Eucalyptus botryoides, E.saligna	3 L	
Fruit Crops Citrus Feijoas Grapes – dormant only Kiwifruit Pipfruit (include Nashi) Stonefruit Tamarillos	5-6 L	Apply PENDIMETHEX HERBICIDE as a bare ground treatment. On established plantings, where simazine safety has been proven, simazine may be added as a tank mix at recommended rates. PENDIMETHEX HERBICIDE may be used on one year old trees in the year of planting. Avoid spray contact with green bark or drift on to green buds or foliage. PENDIMETHEX HERBICIDE may be mixed with knockdown herbicides if small weeds are present but should otherwise be applied to bare earth. Irrigation or rain should follow within 10 days of application or weed control may be reduced.
Lettuce (transplanted)	4-5 L	Apply to a firm seedbed pre-transplanting. A loose, uncompacted seedbed may result in reduced weed control. Irrigation or rain should follow as soon as possible after transplanting or at least within 7 days. Use the higher rate of PENDIMETHEX HERBICIDE

CROP	RATE L/HA	CRITICAL COMMENTS
		on soils high in organic matter or clay content. Some initial crop suppression may be observed but final yields will not be affected.
Maize	5–6 L	<p>Apply PENDIMETHEX HERBICIDE at any time after planting up to the time the weeds reach the first true leaf stage (a period of 2-3 weeks). Use the higher rate of PENDIMETHEX HERBICIDE on soils high in organic matter or clay content, or where the harder to control weeds (see Weeds Controlled) are likely to be present. Additional weed control may be obtained by the application of 3 L/ha ATRANEX® FLOW or ATRANEX SC HERBICIDE, either as a tank-mix with PENDIMETHEX HERBICIDE, or as a follow up spray in the event of some weed escape. Observe the label directions for atrazine.</p> <p>PENDIMETHEX HERBICIDE may be applied at 2.5-3 L/ha in a tank mix with CYCLONE at 3-5 L/ha and ATRANEX® FLOW or ATRANEX SC HERBICIDE at rates mentioned above to control barnyard grass, knotgrass, summer grass, witchgrass, smooth witchgrass, apple of Peru, black nightshade, fathen, redroot, seedling docks. Shepherd's purse, twin cress and willow weed. Observe the label directions for CYCLONE.</p>
Onions	1-1.5 L	<p>PRE CROP EMERGENCE Apply PENDIMETHEX HERBICIDE as soon as possible after sowing. Do not apply later than 4 days after sowing. Application close to crop emergence will result in crop damage. Use the higher rate on soils high in organic matter or clay content. Do NOT use on coarse open soils, particularly sandy soils.</p>
	1.5–2 L	<p>POST CROP EMERGENCE Apply PENDIMETHEX HERBICIDE from the 2 true leaf stage. A further application may be made 2-4 weeks later but not after the 4 true leaf stage. Post emergence applications with PENDIMETHEX HERBICIDE will not control established weeds, but will extend the period of residual weed control.</p>
Peas	3–6 L	Apply PENDIMETHEX HERBICIDE as soon as possible after final seedbed cultivation and sowing. Do not apply in cold, wet, slow growing conditions. Use the higher rate on soils high in organic matter or clay content.

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

WITHHOLDING PERIODS

Not required when used as directed.

MIXING

Fill the spray tank to one quarter capacity with water with the agitation system operating. If required, add a tank partner (such as atrazine for maize) at this stage and mix thoroughly. Fill the spray tank to one half capacity and add the required amount of PENDIMETHEX HERBICIDE and the rest of the water, mixing thoroughly. Agitation is required during spraying and after a stoppage.

COMPATIBILITY

PENDIMETHEX HERBICIDE may be mixed with appropriate partners (e.g. simazine, atrazine and alachlor) depending on the crop.

APPLICATION

Use a conventional sprayer with either mechanical or bypass agitation. Apply the recommended amount of PENDIMETHEX HERBICIDE in sufficient water to ensure accurate cover. This should be from 150-400 L/ha.

RESISTANCE MANAGEMENT

PENDIMETHEX HERBICIDE contains the GROUP K1 Dinitroaniline herbicide, pendimethalin. Do not use another product containing a herbicide in the same group in conjunction with PENDIMETHEX 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.

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