

WARNING
KEEP OUT OF REACH OF CHILDREN



ARROW[®] HERBICIDE

GROUP **A** HERBICIDE

A selective post-emergent herbicide for annual and perennial grass control in broadleaf crops and forestry

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 240 g/L CLETHODIM in the form of an emulsifiable concentrate,
also contains 626 g/L HYDROCARBON LIQUIDS

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

ADAMA

REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**HAZARD CLASSIFICATIONS: 3.1D, 6.1E, 6.3A, 6.4A ,6.9B, 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.

WARNING

Combustible liquid.

May be harmful if swallowed.

Causes skin and eye irritation.

May cause damage to organs through prolonged or repeated oral exposures.

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 flames and hot surfaces.

Do not eat, drink or smoke while using.

Do not breathe spray mist or vapours.

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 place, out of direct sunlight and away from stockfeed or foodstuffs. In case of fire use dry chemical or carbon dioxide for extinction.

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

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 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. 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: Contact 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 of contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, 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.



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Arrow 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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SAFETY DATA SHEET

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

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.

Apply an emulsifiable crop mineral oil at 2 L/ha with all ARROW HERBICIDE treatments. For best results apply to young actively growing grass weeds. Do not apply to plants under stress from drought or waterlogging.

Use the lower rate on seedling grass weeds (2-5 leaf) or actively regenerating rhizomes and the higher rate on tillering plants or hardy rhizomatous grasses. On established sod-bound rhizomatous grasses in non-cultivated crops, suppression only may be obtained. On crops which have been grazed, remove stock and allow grasses to freshen up for a few days (5-10 cm new growth)) before treating.

To minimise any possible crop damage, avoid spray overlaps.

White clover seed crops

Annual and perennial ryegrass. Apply 0.5 L/ha plus 2 L/ha crop oil after closing up.

Legume feeds (e.g. lucerne, lupins, clover, lotus, trefoil)

Annual and perennial ryegrass and other grass weeds.

Fodder brassicas

Apply when grass seedlings are small (typically 3-6 weeks after planting) and well before canopy closure.

Forage herbs (e.g. plantain, chicory)

Annual and perennial ryegrass and other grass weeds. Do not apply ARROW HERBICIDE to plantain seed crops after flower heads are first visible in the base of the plants.

Peas, lentils, oilseed rape

Wild oats. Apply 0.25 L/ha plus 2 L/ha crop oil when the majority of wild oats are in the 2-5 leaf growth stage. A temporary effect on leaf colour and sheen may occur in peas. This has no adverse effect on crop vigour or yield.

Orchard crops

Treat actively growing grass weeds as directed in the table. Apply as a directed spray to the base of the trees to avoid fruit contact.

Vegetable crops

Treat actively growing grass weeds as recommended in the table. Do not apply more than 1 L/ha on vegetable crops. Where no previous experience is available on a particular crop, treat a small area before applying widely.

NB: ASPARAGUS – do not apply during the cutting period.

Forestry

Radiata pine, Macrocarpa, Douglas fir.

Treat actively growing grass seedlings as directed in the table but do not exceed 1 L ARROW HERBICIDE/ha.

Tree release:

Spot treatment: Use 3.5 mL ARROW HERBICIDE plus 10 mL emulsifiable crop mineral oil per litre of water. Apply 20 mL spray solution per square metre. To control broadleaf weeds and for residual weed control, apply in combination with TYLLANEX HERBICIDE or MAGNETO at recommended label rates.

GRASSES CONTROLLED AND RECOMMENDED USE RATES	
GRASS SPECIES	RATES L/HA
Wild oats, annual and perennial ryegrass, cocksfoot, barnyard grass, summergrass, floating sweet grass, canary grass, bristle grass, volunteer cereals	0.25–0.5
N.B. Turf ryegrass and tillered cereals will only be suppressed at these rates	
Annual poa, smooth witchgrass, soft brome, phalaris, tall fescue, prairie grass, ripgut brome, brown top, barley grass	0.5–1
N.B. Chewings fescue, Yorkshire fog and hairgrass will be suppressed, but not controlled at these rates	
Couch, paspalum, Indian doab	2–3

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:

Vegetable crops:	5 weeks
Legume crops, forage herbs and fodder	3 weeks
brassica crops:	

COMPATIBILITY

Compatible with MAGNETO and Versatill*. Otherwise do not apply in combination with other herbicides as efficacy may be reduced.

MIXING

Partially fill the spray tank and add the correct amount of crop oil. Agitate and then add the ARROW HERBICIDE. Add the remainder of the water and agitate thoroughly before using. After standing, agitate spray solution well before reusing.

APPLICATION

Apply with conventional spraying equipment using 100-400 L water/ha. Use nozzles and pressures that produce a droplet size of 150-300 micrometers VMD. Refer to the manufacturers recommendations for the appropriate nozzle and pressure combinations. Use the higher water rate for dense grass infestations.

RAINFALL

ARROW HERBICIDE is considered to be rainfast if applied at least one hour before rainfall.

RESISTANCE MANAGEMENT

ARROW HERBICIDE contains the GROUP A cyclohexanedione "DIM" herbicide, clethodim. Do not use another product containing a herbicide in the same group in conjunction with ARROW 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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*Versatill is a registered trademark of Dow Agrosiences LLC.