

WARNING

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

MILLENNIUM[®]

HERBICIDE

ACTIVE INGREDIENT: 360 g/litre clethodim in the form of an emulsifiable concentrate

A selective post-emergent herbicide for grass weed control in broadleaf crops, orchards, vineyards, fodder and sugar beet, and forestry

NET CONTENTS: 5 LITRES

Approved pursuant to the HSNO Act 1996, No. HSR100646. See www.epa.govt.nz for approval conditions.
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	GHS CLASSIFICATION	HAZARD STATEMENT
	Flammable liquid Cat. 4 Aspiration hazard Cat. 1 Skin irritation Cat. 2 Eye irritation Cat. 2 Specific target organ toxicity (repeated exposure) Cat. 2 Hazardous to soil organisms Hazardous to terrestrial vertebrates Hazardous to the aquatic environment chronic Cat. 2	Combustible liquid. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Very toxic to the soil environment. Harmful to terrestrial vertebrates. Toxic to aquatic life with long lasting effects.

FIRST AID: IF SWALLOWED: Immediately call the National Poisons Centre 0800 POISON (0800 764 766) or doctor/physician. Do NOT induce vomiting.
 IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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 advice/attention.
 IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.

PERSONAL PROTECTION: Keep away from flames and hot surfaces. No smoking.
 Do not breathe the mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke while using this product.

STORAGE: Store locked up. Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.
DISPOSAL: Avoid contamination of any water supply with product or empty container. Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved landfill or disposal facility.

SPILLAGE: Wear appropriate protective clothing. Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

SAFETY DATA SHEET: Additional information is listed in the Safety Data Sheet available from Arxada NZ Limited or www.arxada.co.nz

QUALIFICATION REQUIREMENTS: Persons mixing, loading, applying, or otherwise handling Millennium must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

HSNO ADDITIONAL CONTROLS: The method of application of the substance shall be limited to ground-based application only.

PLEASE READ THE ENTIRE LABEL BEFORE MIXING OR USE. SHAKE WELL BEFORE USE
DIRECTIONS FOR USE

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 and established turf ryegrass 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. Millennium is considered to be rain fast if applied at least one hour before rainfall.

Always add Hasten® or an emulsifiable crop mineral oil at 2.0 litres/ha with all applications.

CROP	CRITICAL COMMENTS
White clover seed	Apply after closing up, to control annual and perennial ryegrass and other grass weeds.
Legume feeds (e.g. lucerne, lupins, clover, lotus, trefoil)	To control 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.
Fodder beet, sugar beet	For best results apply when grass seedlings are small (typically 6-8 weeks after planting) and before canopy closure. May be tank mixed with Beatrix®. Do not apply in tank mixture with other herbicides, fungicides or insecticides unless crop safety is known. Ensure thorough cultivation prior to sowing and do not use more than 1.3 L/ha
Forage herbs (e.g. plantain, chicory)	To control annual and perennial ryegrass and other grass weeds. Do not apply Millennium to plantain seed crops after flower heads are first visible in the base of the plants.
Orchards and vineyards	To control actively growing grass weeds. Apply as a directed spray to the base of the trees/vines to avoid fruit contact.
Vegetables	To control actively growing grass weeds. Do not apply more than 670 ml/ha. Crop safety has been demonstrated on onions, carrots and lettuce. Where crop safety is unknown, a small area should be treated before widespread application. NB: Asparagus – DO NOT apply during the cutting period.
Peas, lentils, oilseed rape	To control wild oats. Apply 170 ml/ha when the majority of oats are in the 2–5 leaf growth stage. A temporary effect on leaf colour and sheen may occur in peas. This does not affect crop vigour or yield.
Forestry (Radiata pine, Macrocarpa, Douglas fir)	Do not exceed 670 ml/ha. Tree release – Spot treatment: Use 23 ml Millennium plus 100 ml emulsifiable crop oil per ten litres of water. Apply 20 ml spray solution per square metre. To control broadleaf weeds and for residual control, apply in combination with Terb 500 at recommended label rates.

GRASSES CONTROLLED AND RECOMMENDED USE RATES	
Grass Species	Rates /ha
Wild oats, annual and perennial ryegrass, cocksfoot, barnyard grass, summergrass, floating sweet grass, canary grass, bristle grass, volunteer cereals. Note: Turf ryegrasses and tillered cereals will only be suppressed at these rates.	170 – 330 ml
Annual poa, smooth witchgrass, soft brome, phalaris, tall fescue, prairie grass, rigput brome, browntop, barley grass. Chewings fescue, Yorkshire fog and hairgrass will be suppressed but not controlled at these rates.	330 – 670 ml
Couch, paspalum, Indian doab.	1.3 – 2.0 litres
Hairgrass	2.0 litres

Mixing: Half fill the spray tank and with the agitator operating and add the correct volume of Millennium. Add the remainder of the water, then add the adjuvant and agitate thoroughly before using. After standing, agitate spray solution well before resuming.

Compatibility: Millennium is compatible with Terb 500®, clopyralid, Beatrix®, and Pycus®. Do not apply in combination with other herbicides unless experience shows that efficacy is not affected. Do not apply within 7 days of phenoxy herbicides.

Equipment: Apply using well maintained spray equipment that is accurately calibrated to apply 100–400 litres of water per hectare. Use nozzles and pressures that produce a droplet size of 150–300 microns VMD. Use the high water rate for dense grass infestations. Clean equipment thoroughly after use.

Resistance Management: **GROUP 1 HERBICIDE**

Millennium contains a herbicide from the cyclohexanedione group and has the inhibition of acetyl coA carboxylase mode of action. Some naturally-occurring weed biotypes resistant to Millennium and other Group 1 Herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Millennium or other Group 1 Herbicides. See <https://resistance.nzpps.org/> for more information.

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 PERIOD Vegetable crops – 5 weeks.

Grapes – Do not apply after Fruitset.

Stock Grazing WHPs:

Legume crops, forage herbs, fodder brassicas – 3 weeks.

Fodder beet and sugar beet – 9 weeks.

Slaughter Intervals:

Leaf plucking in vineyards: After being removed from the vineyard, Sheep must be placed on clean feed and not be sent for slaughter or milked for 2 months.

Postharvest grazing: Livestock that have been grazing in orchards or vineyards should be placed on clean feed for 7 days prior to slaughter or collection of milk for human consumption.

Terb500®, Pycus®, Beatrix® are registered trademarks of Arxada NZ Limited

Hasten® is a registered trademark of BASF

D.O.M:
BATCH NO:



REGISTERED TO: Arxada NZ Limited, Hudson Rd,
 New Plymouth, New Zealand
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NOTICE TO BUYER - CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

The manufacturer and vendors of Millennium warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.