

DANGER

KEEP OUT OF REACH OF CHILDREN

Grasidim™

HERBICIDE

A selective post-emergent herbicide for grass weed control in broadleaf crops and forestry.

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

Also contains 582 g/L dearomatised hydrocarbon solvent and 17.5 g/L calcium dodecylbenzene sulphonate.

5L

Registered pursuant to the ACVM Act 1997, P8967
See www.foodsafety.govt.nz for registration conditions.
Approved under the HSNO Act 1996, HS100921
See www.epa.govt.nz for controls.

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AGPRO

READ LABEL BEFORE USING



HAZARD CLASSIFICATIONS

Flammable liquid Category 4, Aspiration hazard Category 1, Skin irritation Category 2, Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment chronic Category 3. **QUALIFIED HANDLER** This product must be under the control of a qualified handler during use. **GRASIDIM** must not be applied into or onto water. **GRASIDIM** must be applied via ground-based method only.

Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if using 3 litres or more of GRASIDIM within 24 hours.

FLAMMABILITY

Combustible liquid; keep away from naked flame. No smoking.

TOXICITY

May be fatal if swallowed and if aspirated into lungs. May cause skin and serious eye irritation. May cause liver damage from repeated oral exposure at high doses.

ECOTOXIC

Harmful to aquatic plants. Avoid contamination of any water supply with product or empty container. Very toxic to some plant species. Do not allow drift to occur outside the target area. Harmful to soil organisms and to terrestrial vertebrates.

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children. Do not store near heat or flame. Store in original container tightly closed and in a locked, dry, cool area away from sources of ignition and foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100 litres are subject to signage, 1000 litres of **GRASIDIM** require secondary containment and more than 1000 litres require emergency response plans. Stores containing 500 litres of **GRASIDIM** must have at least 2 fire extinguishers.

PERSONAL PROTECTION

Avoid skin and eye contact and inhalation of spray mist. When mixing or applying wear eye protection, chemically resistant gloves and boots, and overalls. Remove protective clothing and wash hands and face thoroughly before meals and after work.

DISPOSAL

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Otherwise crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an approved landfill. Do not burn.

Batch Number:

Date of Manufacture:

FIRST AID

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) (24hrs) or a doctor. If swallowed do not induce vomiting. Get immediate medical advice. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If skin or eye irritation persists, get medical advice. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre 0800 POISON (0800 764 766) (24hrs) or a doctor immediately for advice.

EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade.

SPILLAGE

Extinguish all ignition sources, exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing. Absorb spills 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.

TRANSPORT

Do not carry more than 1 litre of **GRASIDIM** on a passenger service vehicle.

MIXING

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

COMPATIBILITY

GRASIDIM is compatible with terbuthylazine and clopyralid. 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
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GRASIDIM 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 **GRASIDIM** 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

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not be controlled by **GRASIDIM** or other Group 1 Herbicides.

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 (5-10cm new growth) before treating. To minimise any possible crop damage, avoid spray overlaps. **GRASIDIM** is considered to be rainfast if applied at least one hour before rainfall.

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

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

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.
Forage herbs (e.g. plantain, chicory)	To control annual and perennial ryegrass and other grass weeds. Do not apply GRASIDIM to plantain seed crops after flower heads are first visible in the base of the plants.
Orchards	To control actively growing grass weeds. Apply as a directed spray to the base of the trees 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 GRASIDIM plus 100ml 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 terbuthylazine 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. Note: 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

WITHHOLDING PERIOD

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

CONDITIONS OF SALE

As the use of this product is beyond the control of AGPRO NZ Ltd, no warranty expressed or implied, beyond that covered under the Fair Trading Act is given by AGPRO NZ Ltd, regarding its suitability, fitness or efficacy for any purpose for which it is used by the user, whether in accordance with the directions or not. AGPRO NZ Ltd, accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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