

The logo for AGPRO DIRECT, featuring the word 'AGPRO' in a bold, sans-serif font above the word 'DIRECT' in a smaller, bold, sans-serif font. The text is white and set against a blue background with a stylized green and yellow leaf graphic.

**LABEL**

**RAINBOW GRASIDIM**

EFFECTIVE 11/09/2015

**HARMFUL·ECOTOXIC**  
**Keep out of reach of children**

**HERBICIDE**

**GRASIDIM™**

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

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.

**Registered to:**

Shandong Rainbow International Co. Ltd,  
6th Floor, Gaoxinjishuchuangye Centre  
Shunhua Road 750#, Jinan  
Shandong, 250101, China

**NZ Agent:**

AR & JA DRYSDALE LTD  
PO Box 72 275  
Papakura 2244  
Tel: (021) 939 728

Batch:  
D.O.M.:

Registered pursuant to the ACVM Act 1997, P8967  
See [www.foodsafety.govt.nz/acvm/](http://www.foodsafety.govt.nz/acvm/) for registration conditions.

Approved under the HSNO Act 1996, HSR100921  
See [www.epa.govt.nz](http://www.epa.govt.nz) for Controls.

Net Contents: 1, 5, 20, 200 L

Contact AGPRO Direct on freephone 0508 536 536 or visit our website [www.agpro.co.nz](http://www.agpro.co.nz)

**HAZARD CLASSIFICATION:**

3.1D, 6.1E, 6.3A, 6.4A, 6.9B, 9.1C, 9.2A, 9.3C

**APPROVED HANDLER** This product must be under the control of an approved handler during use.

(a) *applied in a wide dispersive manner; or*

(b) *used by a commercial contractor.*

GRASIDIM must not be applied into, onto or over 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.

**FLAMMABLE**

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

**TOXIC**

May be harmful if swallowed and if aspirated into lungs. May cause skin and 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.

**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.

**First Aid**

If swallowed do not induce vomiting. 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 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. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24hrs).

**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.

**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.

**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**

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 A 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 GRASIDIM or other Group A 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.**

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

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.**

#### WITHHOLDING PERIOD:

Vegetable crops - 5 weeks.

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

#### WARRANTY

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the Manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.