

ECOTOXIC

Nufarm
associate[®]
600 WDG

FREE RECYCLING



AGRECOVERY

www.agrecovery.co.nz



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L80980514

For the control of gorse, broom, blackberry and other scrub and broadleaf weeds in forest site preparation, waste areas and pasture

Net: 2kg



Grow a better tomorrow.

PELLETS

READ ENTIRE BOOKLET BEFORE USING

Active ingredient: Contains 600g/kg metsulfuron-methyl in the form of a water dispersible granule.

HAZARD CLASSIFICATION: 6.3B, 6.4A, 9.1A, 9.2A

APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner, or used by a commercial contractor.

This product must not be used for any purpose, or in any manner, contrary to this label unless authorized under appropriate legislation.

TOXICITY

Harmful - may cause mild skin and eye irritation.

ECOTOXIC

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Selective herbicide - very toxic to some plant species. **Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.** Do not allow drift to occur outside the target area. Aerial application is recommended on non-crop areas only. Do not apply or flush equipment onto or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Application to drains and irrigation channels must only be made when these waterways are dry and at least two months is allowed to elapse before they carry any water.

HANDLING PRECAUTIONS

STORAGE

Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100 kg of Associate 600 WDG are subject to signage, and more than 100 kg require emergency response plans.

PERSONAL PROTECTION

Avoid skin and eye contact. When mixing or applying wear protective clothing such as gloves, eye protection, overalls and boots. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment.

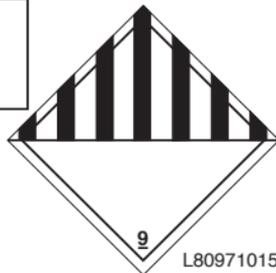
DISPOSAL

Triple rinse empty container and add rinsate to the spray tank. Burn in an appropriate incinerator if circumstances permit. Otherwise crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an approved landfill.

First Aid: If swallowed, do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If in eyes wash out immediately with water.

Registered pursuant to the ACVM Act 1997, No. P5957. See www.foodsafety.govt.nz/acvm/ for registration conditions.

PROPER SHIPPING NAME	HAZARD CLASS	UN No.	HAZCHEM	PACKING GROUP
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (metsulfuron-methyl 60%)	9	3077	2X	III



Marketed by: Nufarm Limited,
6 Manu Street, Otahuhu, Auckland, NZ.
Telephone 0-9-270 4157
www.nufarm.co.nz

Batch No.:

D.O.M.:

Nufarm Emergency Phonenumber: 0800-651 911 toll free 24 hours

L80971015

Spillage: Wear appropriate protective clothing and prevent material from entering waterways. Absorb liquid spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and detergent and absorb with further inert material. Dispose of waste safely in an approved landfill.

Transport: Do not carry more than 3kg of Associate 600 WDG on a passenger service vehicle.

Record Keeping: Records of use, as described in NZS 8409 Management of Agrichemicals, must be kept when using 3kg or more of Associate 600 WDG within 24 hours.

Mixing and Compatibility: Partially fill the spray tank and add the correct amount of Associate 600 WDG. Agitate thoroughly while filling and spraying. When using with organosilicone surfactants such as Pulse®, add the Pulse last when the tank is nearly full, to minimize foaming.

Associate 600 WDG is compatible with many other herbicides such as glyphosate. Tank mixtures with marker dyes based on acetic acid should always be used within 24 hours.

Cleaning: To avoid injury to subsequently sprayed sensitive crops, all traces of Associate 600 WDG must be removed from mixing and spraying equipment immediately after spraying.

1. Drain tank, then flush tank, pump and boom with clean water for 10 minutes.
2. Fill tank with clean water and add 1 litre chlorine bleach (containing 3% sodium hypochlorite) per 100 litres of water. Agitate, flush through the system, then drain.
3. Repeat step 2.
4. Remove all nozzles and filters and clean separately. Thoroughly rinse tank and flush clean water through pump and boom to remove all traces of chlorine solution.

GENERAL INFORMATION

Associate 600 WDG is a non-volatile, non-hormonal herbicide, which is absorbed through foliage and roots and translocated throughout the plant. It inhibits cell division causing a loss of vigour and eventual plant death. Best results are obtained by treating actively growing weeds between spring and autumn.

Pasture Re-establishment: Associate 600 WDG is extremely damaging to established clovers and ryegrass, and soil residues may prevent the early re-establishment of a clover/ryegrass sward. Soil residue persistence will vary according to dose rate, soil type and climate. A minimum period of 3 months should elapse before oversowing. It is recommended that small areas be oversown 1-2 months before the planned time for sowing to check whether a damaging residue is still present. If a quick vegetation cover is required a resistant grass such as cocksfoot or browntop can be oversown.

Resistant Weeds Warning: Naturally occurring weed biotypes resistant to Associate 600 WDG and other sulfonylurea herbicides may exist. These resistant weeds will not be controlled by Associate 600 WDG and may become dominant in that field. To prevent or delay the development of resistant weeds use cultural practices such as tillage, preventing weed escapes going to seed, and herbicides with different modes of action against the weed.

Withholding Period:

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

Do not graze treated areas with dairy cows for three days after application or 1 day for other stock.

DIRECTIONS FOR USE:

Weeds Controlled				
Weed	Handgun Rate / 100 litres	Knapsack Rate / 10 litres	Mistblower Rate / 10 litres	Boom or Aerial Rate / Ha
Barberry	35g	5g	10g	-
Apply from November to May. Best results are achieved treating single bushes less than 3 metres high.				
Blackberry	20-35g	5-8g	10-16g	200-300g
Use the higher rate on harder to kill blackberry types such as those occurring in some Northland areas and on the east coast of the North Island. Associate 600 WDG may be applied from November to June but for best results apply from January to May. Only treat bushes with a well developed leaf canopy, prior to leaf discolouration. Preferably use ground application equipment. Crushing, slashing or burning of treated bushes is recommended as soon as canes are brittle enough. Intensive stocking (sheep or goats) and oversowing of treated areas will minimize the amount of re-growth. There may be some re-growth requiring follow-up treatment two years after spraying.				
Bracken	35g	5g	10g	170g
Apply when fronds are unfurled, (January to June) but before frost browning. Best results can be expected when plants are burnt in spring and frond re-growth is sprayed the following March to June.				
Broadleaf weeds	5g	1g	2g	50g
For the control of a wide range of broadleaf weeds on waste areas, roadsides, water tables, drains and industrial plant sites. Apply when weeds are actively growing.				
Broom	35g + Pulse 100ml	5g + Pulse 10ml	10g + Pulse 10ml	-
Apply from November to May to actively growing bushes.				
Fennel	5g	1g	2g	50g
Apply when weeds are actively growing.				

Weeds Controlled (Continued)

Weed	Handgun Rate / 100 litres	Knapsack Rate / 10 litres	Mistblower Rate / 10 litres	Boom or Aerial Rate / Ha
Gorse	20g + Pulse 100ml	5g + Pulse 10ml	10g 20g U.L.V. + Pulse 10ml	500g + Pulse 400ml/100L
Apply at any time of the year. Ensure full coverage and complete canopy penetration, otherwise significant regrowth may occur. Follow-up aerial spraying with slashing, crushing or burning and oversowing of pasture species. Some further chemical treatment may be required.				
Seedling Gorse	-	-	-	170g + Pulse 400ml/100L
Hawthorn	35g	5g	10g	-
Apply from November to March. Best results are achieved treating single bushes less than 3 metres high.				
Horehound	-	-	-	75g
Apply to actively growing weeds in waste areas or sheep camps where pasture damage is acceptable.				
Inkweed	25g	5g	10g	50g
Apply when weeds are actively growing.				
Manuka	30g	5g	10g	-
Ensure complete coverage of tall growing bushes.				
Matagouri	25g	5g	10g	170g
Apply to actively growing bushes from December to April.				
Old Man's Beard	35g + Pulse 100ml	5g + Pulse 10ml	-	170g + Pulse 250ml/100L
Apply from November to May.				
Privet	35g	5g	10g	-
Apply in spring or autumn when privet is actively growing.				

Weeds Controlled (Continued)				
Weed	Handgun Rate / 100 litres	Knapsack Rate / 10 litres	Mistblower Rate / 10 litres	Boom or Aerial Rate / Ha
Ragwort, Thistles	2.5 - 5g	1g	-	-
Apply to ragwort from the rosette stage to late flowering. Use the higher rate on multicrown plants. Direct spray to the centre of the plant. Seed from treated flowering plants will not be viable providing application is made before senescence (flowers discolour).				
CAUTION: Ragwort plants may become more palatable following spraying. Stock should be removed until the treated plants die down.				
Sweet Brier	35g	5g	10g	170g
Apply from November to April with complete coverage of trees.				
Tauhinu	-	-	-	300g + Pulse 250ml / 100L
Apply during active growth. Larger bushes may be less well controlled.				
Tutu	25g	5g	10g	-
Apply when actively growing.				
Wild Ginger	25g	5g	10g	-
Apply from spring to late autumn.				
Willows	35g	5g	10g	-
Apply from November to April with complete coverage of trees.				

Weeds Not Controlled: Black nightshade, woolly nightshade, boxthorn, paspalum, cocksfoot, kikuyu, browntop, pampas grass, Indian doab, couch.

APPLICATION METHODS

Handgun: Ensure complete coverage of foliage and stems. Use pressures of 1,000- 2,000 kPa and No. 4 or No. 6 spray tips. Apply at least 1,000 litres spray per hectare.

Knapsack: Only use for treating small bushes where complete coverage can be achieved.

Mistblower: Ensure complete coverage of foliage and stems. For U.L.V. attachments use the largest setting.

Aerial: For standard boom systems apply no less than 200-400 litres water/ha as two overlapping passes of 100-200 litres water/ha. For foaming nozzle systems apply a minimum of 230 litres water/ha as two overlapping passes of 115 litres water/ha.

Carpet Roller / Wick Wiper: To control pasture weeds such as ragwort, buttercup, thistles. Graze pasture first to maximize the height difference between pasture and weeds. Pre-mix 1g Associate 600 WDG per litre of water. Ensure wiper is wet before starting. Two passes in opposite directions are recommended. Keep wiper surface moist and free from trash. Avoid dripping as pasture damage may result.

Stump Swabbing: To control gorse or barberry, apply 5g Associate 600 WDG per litre of water with a paint brush or knapsack sprayer, to the freshly cut stem and stump to ground level.

Stem Injection: To control poplars, willows, privet and pines. Mix 20g Associate 600 WDG per litre of water and inject 2ml of solution per hole into holes made at 10cm intervals around the tree trunk. Control of large willows may be variable.

Forestry: Preplant treatment for radiata pine only. To control bracken, blackberry and seedling gorse, apply 170g Associate 600 WDG per hectare. Do not plant trees within 2 months of spraying.

Approved pursuant to the HSNO Act 1996, Approval Code HSR000242. See www.epa.govt.nz for approval controls.

® Associate is a registered trademark of Nufarm Australia Limited.

® Pulse is a registered trademark of Nufarm Technologies, USA.

CONDITIONS OF SALE:

CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded. When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

REFER TO BOOKLET FOR FULL INFORMATION

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