



POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Nufarm

GRUNT 750 WDG

Herbicide

ACTIVE CONSTITUENT: 750 g/kg HEXAZINONE

GROUP	C	HERBICIDE
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For the control of certain sedges, annual and perennial grasses, broadleaf and woody weeds in *Pinus radiata* and *Pinus pinaster*. forests, and industrial weed control situations.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

NOTICE (NSW ONLY) WITH THE EXCEPTION OF REGROWTH LESS THAN 5 YEARS OLD AND UNDER THREE METRES TALL, THE CLEARING OF MORE THAN FIVE HECTARES OF TREES BY AERIAL OR GROUND APPLICATION IN NSW IS PROHIBITED, UNLESS SPECIFICALLY AUTHORISED BY PERMIT. THIS RESTRICTION DOES NOT APPLY TO WOODY WEEDS AND STEM INJECTION OF TREES.

nufarm.com.au

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
Fax: (03) 9282 1001

Net Contents: 10kg

APVMA Approval No.: 62549/56660

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and deliver empty bags for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty bags or product.

SAFETY DIRECTIONS

Harmful if swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. DO NOT inhale dust. When using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre, Phone Australia 13 11 26. If in eyes, hold eyes open, flood with water for at least 15 minutes, and see a doctor.

MATERIAL SAFETY DATA SHEET

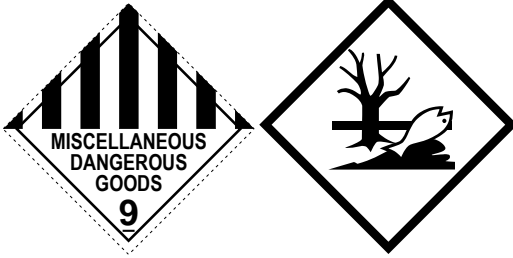
For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or from Nufarm website - www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

BN / DOM / Barcode / 10kg /



ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HEXAZINONE)
UN No: 3077
PACKING GROUP: III
HAZCHEM: 2Z
IN AN EMERGENCY DIAL: 000 POLICE OR FIRE BRIGADE
IN AN EMERGENCY, SPECIALIST ADVICE NUFARM AUSTRALIA LIMITED 1800 033 498

"NOTE: MANUFACTURED IN AUSTRALIA - DG CLASS 9 MARKING ONLY REQUIRED FOR SHIPMENT TO TASMANIA - THIS IS DONE BY NUFARM LOGISTICS"



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GROUP **C** HERBICIDE

For the control of certain sedges, annual and perennial grasses, broadleaf and woody weeds in *Pinus radiata* and *Pinus pinaster* forests, and industrial weed control situations.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

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DIRECTIONS FOR USE

Pinus radiata Plantations; and

Pinus pinaster (South Australia ONLY) Plantations

Extremely phytotoxic to Eucalyptus spp.

GROUND AND AERIAL APPLICATION

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Pre-planting SITE PREPARATIONS Pasture Sites	ANNUALS: Flatweeds, Rye grasses, Clovers, Sowthistle	Qld, NSW, ACT, Vic, Tas, SA, WA only	2 - 2.5kg/ha	Apply any time from March through to July. It is recommended to delay planting until planting lines become clearly visible, i.e. when effects of the product are evident. Machine planting is not recommended, as soil disturbance will reduce the residual activity. For best results on Woody and Hard to kill weeds, application should be made after weed emergence. Silver wattle exceeding 1.5m – suppression only. Tank mixtures of Grunt 750 WDG and Nu-trazine will improve activity on Austral storks bill (<i>Pelargonium australe</i>), flatweed (<i>Hypochoeris radicata</i>), fog grass (<i>Holcus lanatus</i>), sorrel (<i>Acetosella vulgaris</i>), sow thistle (<i>Sonchus oleraceus</i>), spear thistle (<i>Cirsium vulgare</i>) and wild oats (<i>Avena fatua</i>). Tank mixtures of Grunt 750 WDG and Nu-trazine will provide suppression of Bracken only.
	HARD-TO-KILL PERENNIALS: Wallaby grass, Serrated tussock, Sorrel, Dandelion, Kangaroo grass (Suppression Only), Yorkshire fog grass		3.5-5kg/ha	
Native Woodland, Heath & Second Rotation Sites - long term control	WOODY & HARD-TO-KILL WEEDS: Bracken, Varnish acacia (<i>Acacia verniciflua</i>), Sunshine acacia (<i>Acacia botrycephala</i>), Silver wattle (<i>Acacia dealbata</i>), Hop goodenia (<i>Goodenia ovata</i>), Common cassinia (<i>Dogwood Vic only</i>) (<i>Cassinia aculeata</i>)	SA only	5kg/ha	
			2kg/ha + 7.5L/ha Nu-trazine 600 or 5kg/ha Nu-trazine 900 DF	
Post-planting TREE RELEASE APPLICATION Pasture Sites	ANNUALS: See: "Pre-planting SITE PREPARATIONS – Pasture Sites"	NSW, ACT, Vic, Tas, SA, WA only	2kg/ha + 7.5L/ha Nu-trazine 600 or 5kg/ha Nu-trazine 900 DF	Foliar Spray Applications Apply during July, August and September. Allow 8 weeks after transplanting before treatment. Avoid use on <i>Pinus</i> spp. suffering from stress (such as drought or water logging). Avoid use on shale soils and exposed subsoils.
	HARD-TO-KILL PERENNIALS: See: "Pre-planting SITE PREPARATIONS – Pasture Sites"			
Native Woodland, Heath & Second Rotation Sites - long term control	ANNUALS AND PERENNIAL WEEDS: See: "Pre-planting SITE PREPARATIONS – Pasture Sites"	Qld, NSW, ACT, Vic, Tas, WA only	3.5-5kg/ha	
	WOODY & HARD-TO-KILL WEEDS: See: "Pre-planting SITE PREPARATIONS – Native woodland etc."		5kg/ha	
Loamy Sands & Sandy Soils	Sorrel, Yorkshire fog grass, Annual ryegrass	SA only	2 - 2.5kg/ha	Apply during August or September. Allow 8 weeks after transplanting before treatment. See above [^] .

FORESTRY SPOTGUN

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Post-planting TREE RELEASE APPLICATIONS	ANNUALS: Brome grass, Capeweed, Chickweed, Clovers, Flatweeds, Rye grasses	Qld, NSW, ACT, Vic, Tas, WA only	6 or 12mL/ha of spray solution/pine	Mix 1kg Nufarm GRUNT 750 WDG with 30L water and apply amount shown/pine.
Pasture sites And Native Woodland, Heath & Second Rotation Sites	HARD-TO-KILL PERENNIALS: Dandelion, Docks, Paspalum, Ribwort/Plantain, Serrated tussock, Snow grass, Sorrel, Wallaby grass, Yorkshire fog grass, Kangaroo grass (Suppression Only)		10 or 12mL/ha of spray solution/pine	Use the higher rates of Nufarm GRUNT 750 WDG: - when weed pressure is heavy. - when grasses are the major problem. - for longer term weed control and greater pine growth responses. Hold Forestry Spotgun® (fitted with 120° solid cone nozzle) over the pine (slightly off centre to the central header) with the nozzle tip 50cm above the ground when making the application. Apply 1 to 4 months after pines have been transplanted into plantation.

INDUSTRIAL WEED CONTROL APPLICATIONS**GROUND APPLICATION**

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Commercial and industrial areas, rights of way, around agricultural buildings	ANNUALS WEEDS: Summer grass, Barnyard grass, Love grass, Green amaranth, Asthma plant, Common sida, Common sowthistle, Wild oats, Soft brome, Great brome, Medics, Fleabanes, Paterson's curse (Salvation Jane), Blackberry nightshade	ALL STATES	4-6kg/ha	Foliar Spray Applications Use the higher rates on heavy soils and soils high in organic matter or carbon; on light soils where rainfall is heavy or on dense established stands of hard to kill species such as paspalum, couch grass (<i>Cynodon dactylon</i>), nut grass and kikuyu. Gives complete eradication of mature plants only. Seedling plants should be controlled for up to 6 months.
	PERENNIAL WEEDS: Docks, Creeping buttercup, Ribwort (plantain), Couch grass (<i>Cynodon dactylon</i>), Paspalum, Nutgrass, Kikuyu, Artichoke thistle, Rhodes grass, Chicory, Flatweeds	Qld, NSW, ACT, WA only	6-8kg/ha	
		Vic, SA, Tas only	8kg/ha	
	<i>Parthenium hysterophorus</i>	Qld, NSW, ACT only	1kg/ha (Large areas) 2g/10L/20 m ² (Small areas)	
Spiny rush (<i>Juncus acutus</i>)	Vic only	120-180g/100L		

NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**GENERAL INSTRUCTIONS:**

Nufarm GRUNT 750 WDG is an effective foliar contact and soil active residual herbicide. Use sufficient water for thorough uniform coverage. For best foliar and residual weed control, apply as a post-emergent spray during the periods of active weed growth and when the air temperatures are 25°C and above. Applications when weed vegetation is dormant, semi-dormant, under moisture stress or during the winter months may not be as effective.

In temperate winter rainfall areas where temperatures are generally below 25°C during the period of active plant growth, the foliar effect may be slow to appear. In these areas herbicide activity is more dependent on root absorption.

For residual control, sufficient rainfall is required after treatment to promote root absorption by the weeds. Results obtained may vary with the amount of chemical applied, rainfall, air temperature, soil type and other conditions.

All use rates of the product are expressed as overall rates. For band treatment use proportionately less, i.e. use one-third the overall rate when treating one-third of the area. DO NOT apply Nufarm GRUNT 750 WDG during periods of intense rainfall, when wind speed exceeds 30kph (for ground application) or when wind speed exceeds 20kph (for aerial application). On slopes of 20% to 30% apply Nufarm GRUNT 750 WDG by strip or spot application ONLY. On slopes greater than 30% apply by spot application ONLY.

RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
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Nufarm GRUNT 750 WDG herbicide is a member of the Triazines group of herbicides. Nufarm GRUNT 750 WDG has the inhibitors of photosynthesis at photosystem II mode-of-action. For weed resistance management Nufarm GRUNT 750 WDG is a Group C Herbicide. Some naturally-occurring weed biotypes resistant to Nufarm GRUNT 750 WDG and other Group C herbicides may exist through 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 Nufarm GRUNT 750 WDG or other Group C herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Nufarm GRUNT 750 WDG to control resistant weeds. Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the survivors. DO NOT make more than one application of a Group C herbicide in the same season. If the user suspects that a Group C resistant weed is present, GRUNT 750 WDG or other Group C herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local Nufarm representative.

EQUIPMENT AND APPLICATION

Nufarm GRUNT 750 WDG Herbicide is a wettable granule formulation. The product is mixed with water and applied at recommended rates with either ground or aerial equipment (dependent on use pattern). Partially fill the spray tank with water and add the correct amount of the product for the area to be sprayed with the agitation system engaged. Top up the correct volume with water, and for best results keep the spray solution agitated while spraying. THE MATERIAL MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser.

When mixing Grunt 750 WDG with atrazine, add Grunt first to spray tank and agitate strongly before adding atrazine.

Pinus spp. (Pinus radiata, Pinus pinaster)

Ground Application - Apply in 100-400L/ha with a properly calibrated boom.

Forestry Spotgun - see Directions for Use – Critical comments.

Aerial Application - Apply a minimum of 20L water for every 1kg of product used, eg. 5kg in 100L of water per hectare. A minimum of 50L water is required when used with Accuflow (coarse droplet nozzle in helicopters).

Use a surfactant/wetting agent for pre-planting applications only, by either ground or aerial equipment.

DO NOT add a surfactant if the spray is to be applied over the top of *Pinus* spp trees.

A non-ionic surfactant/wetting agent (such as Chemwet 1000) may be added at the rate of 200-500mL/100L of spray (for a surfactant containing 100% active constituent) for improved wetting.

INDUSTRIAL WEED CONTROL

Ground Application only - Apply in 100-400L/ha with a properly calibrated boom or 2000-4000L/ha with hand spray equipment.

A non-ionic surfactant/wetting agent (such as Chemwet 1000) may be added at the rate of 250-500mL/100L of spray (for a surfactant containing 100% active constituent) for improved wetting.

CROP SAFETY

Because death or injury to trees may result, DO NOT apply after planting in the following situations:-

- a) On trees which show poor to vigour due to disease, or environmental factors such as drought, moisture stress or waterlogging;
- b) On poorly drained soils;
- c) On gravelly or rocky soils, and exposed subsoils.

EQUIPMENT CLEANUP

Thoroughly clean all traces Nufarm GRUNT 750 WDG Herbicide from application equipment immediately after use. Failure to remove residues may result in damage to sensitive plants in subsequent treated areas.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

The product may kill many trees and other desirable plants if not correctly applied.

DO NOT apply on or near desirable trees or other plants, or on areas where their roots may extend. As guidance this is two times their height, or more depending on the species and other conditions.

DO NOT apply in areas where a surface flow of water could wash the chemical into areas where roots of desirable trees or plants may extend.

DO NOT drain or flush spray equipment near desirable trees or in areas where their roots may extend.

DO NOT apply under windy conditions and in areas where spray drift could damage valuable plants.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto non-target vegetation.

PROTECTION OF LIVESTOCK

Keep stock away from treated areas.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate wetlands or watercourses with this product or used containers.

DO NOT apply within 25m of a recognized waterway, or further if native riverbank vegetation may be damaged (see Protection of Native and other Non-target Plants).

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and deliver empty bags for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty bags or product.

SAFETY DIRECTIONS

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FIRST AID

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