

POISON

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

Nufarm
Nugrass[®]

Selective Herbicide

ACTIVE CONSTITUENT: 375 g/L DICLOFOP-METHYL
SOLVENT: 534 g/L LIQUID HYDROCARBON

GROUP **A** HERBICIDE

For post-emergent control of annual rye grass, common barb grass and wild oats in wheat, linseed, peas and other crops and for the control of Crowsfoot grass in turf as listed in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.

Contents: 20 Litres
55 Litres
110 Litres
200 Litres

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



® Nugrass is a registered trademark of Nufarm Australia Limited.

**PROTECTION OF WILDLIFE, FISH,
CRUSTACEANS AND ENVIRONMENT.**

DO NOT contaminate streams, rivers or waterways with the chemical or used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should not be burnt.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and goggles. If product in eyes, wash it out immediately with water. Wash hands after use. 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.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS).

CONDITIONS OF SALE

"Nufarm Australia Limited" ('Nufarm') shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Nufarm's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Nufarm has any authority to add to or alter these conditions.

APVMA Approval No.: 31671/20L/0704

APVMA Approval No.: 31671/55L/0704

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In case of emergency: Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.

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GROUP A HERBICIDE

For post-emergent control of annual rye grass, common barb grass and wild oats in wheat, linseed, peas and other crops and for the control of Crowsfoot grass in turf as listed in the Directions for Use table.

READ THOROUGHLY BEFORE USING.

Contents: 20 Litres

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DIRECTIONS FOR USE:

RESTRAINTS: DO NOT apply if rainfall is expected within 2 hours.

DO NOT spray when temperatures are greater than 25°C.

DO NOT apply to weeds or turf under stress due to, for example, very dry, very wet, nutrient deficient, frosty or diseased conditions.

DO NOT use on rye-grass turf.

Crop	Weeds	State	Weed Stage	Rate	Critical Comments
Wheat, Linseed, Triticale, Canola and associated Oilseed Rape, Safflower, Rye, Barley	Annual (Wimmera) Rye Grass	All States	2 - 4 leaf	1L/ha	Apply generally 3-6 weeks after sowing, when cereals usually 2-5 leaves. For barley, apply only when crop is 4-5 leaf stage. Add wetting agent to water in spray tank – i.e. 150mL Activator/ 100L water. This is irrespective of volume of water/ha or rate of Nugrass. Do not add wetting agent if mixing with some other sprays (refer compatibility).
	Common Barb Grass	NSW only	2 - 4 leaf	1.25L/ha	
Lupins, Peas	Annual Rye Grass	NSW, Vic, SA, Tas, WA only	2 - 4 leaf	1L/ha	
	Common Barb Grass	NSW only	2 - 4 leaf	1.25L/ha	
Wheat, Linseed, Triticale, Canola and associated Oilseed Rape, Safflower, Rye, Barley	Wild Oats	All States	2 - 3 leaf	1.5L/ha	For barley, apply only when crop is 4-5 leaf. Avoid double spraying (overlap) at the maximum rate of 1.5L/ha. In crops other than barley, use 2L rate if most weeds 3-4 leaf and if spraying 4-6 weeks after sowing, especially in N. NSW and Qld. Add wetting agent as above. Use 1.5L rate only if growing conditions are very favourable and weeds 2-3 leaf, 3-4 weeks after sowing, and cereals usually 2-3 leaf.
			3 - 4 leaf	2L/ha (not barley)	
Lupins, Peas	Wild Oats	NSW, Vic, SA, Tas, WA only	2 - 3 leaf	1.5L/ha	
			3 - 4 leaf	2L/ha	
Pasture, Legume Seed Crops	Annual Rye Grass	All States	2 - 4 leaf	1L/ha	Add wetting agent as above. Ensure thorough coverage of weeds.
	Wild Oats	All States	2 - 4 leaf	1.5 - 2L/ha	
Oilseed Poppies	Wild Oats, Annual Rye Grass (refer critical comments)	Tas only	See critical comments	0.5 - 3L/ha	Do not add wetting agent. Apply in accordance with recommendations made by the Department of Primary Industry or the poppy contracting company.
Turf: kikuyu, hybrid couch cv. Tifdwarf	Crowfoot grass (<i>Eleusine indica</i>)	Qld, NSW, ACT only		1L/ha or 100mL in 100L of water per 1000m ²	Apply to weeds between the seedling and tillering stage for best results. Use lower rates for seedlings and higher rates for established grass weeds. A repeat spray may be needed in 2 to 4 weeks. Results are best when Nugrass is applied under good growing conditions and weeds have sufficient leaf area ie. 2 to 3 days after mowing.
Queensland blue couch				1L/ha or 100 to 150mL in 100L of water per 1000m ²	
Common couch, Buffalo, Hybrid couch cv. Tifway, Carpet grass, Salt couch				1 to 2.5L/ha or 100 to 250mL in 100L of water per 1000m ²	

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIOD:

DO NOT GRAZE OR CUT FOR STOCKFEED FOR 7 WEEKS AFTER APPLICATION.

TURF: DO NOT ALLOW TREATED AREAS OR CLIPPINGS TO BE GRAZED BY OR FED TO LIVESTOCK.

GENERAL INSTRUCTIONS

Results are best under good growing conditions, when the weeds are actively growing. Application to weeds under stress eg. due to continuous severe frosts, dry and waterlogged conditions, nutrient deficiency or disease should be avoided.

If spraying cannot be completed spray mixtures of Chipco Illoxan in clean water may be left overnight without significant loss of efficacy. The mixture should be well agitated before spraying re-commences. It is not recommended that this be general practice.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

Results are best under good growing conditions and application to weeds under stress (eg. due to continuous severe frost, dry or waterlogged conditions) should be avoided. Wild oats germinating after application will often be stunted and will not seriously compete with the crop. Application to crops with a covering of frost or dew has been successful but should be avoided in general. Nugrass does not affect undersown clovers or medics or other broadleaf crops and has no activity against broadleaf weeds. Current indications are that spray mixture may be left overnight without loss of efficiency, if spraying cannot be completed. However, it is not recommended that this be general practice.

CROP SAFETY

Do not plant susceptible crops (eg. maize, sorghum, rice) for 10 weeks after application.

APPLICATION

Aim to apply this product to base of weeds and ensure penetration.

MIXING

Add the required quantity of this product directly to the spray tank when about two-thirds full. Top up with water to required volume, with agitators in motion. Where wetting agents are recommended, add just before tank is full of water to avoid excessive frothing.

EQUIPMENT

Ground Sprayers: Standard boom sprays only are recommended and must be fitted with bypass or mechanical agitation. It is recommended to use approximately 50 to 150L water/ha and a droplet size of 200-300 microns. DO NOT apply with boomless jets or misters. With ground boom sprays, better coverage and penetration may be obtained by setting nozzles at 45° angle forward, particularly in dense crops.

Knapsack Equipment: Nugrass should be applied at label rates in adequate water to thoroughly wet weeds being sprayed, ie. 5 to 10L/100m².

Aircraft: Best results have been obtained using 20-30L water/ha with a steady cross wind and a swath width of 15-18 metres. Aim for a droplet size of 200-300 microns. DO NOT exaggerate swath width. Aircraft operators should consult manufacturer for details.

COMPATIBILITY

1. Nugrass may be tank mixed with Afalon®, Bromoxynil, Bromoxynil + MCPA, methabenzthiazuron®, Tigrex (max. 800mL/ha) or MCPA LVE (max. 700mL/ha) for broadleaf weed control in wheat and barley; and with Dimethoate, Omethoate and Phosmet. DO NOT add wetting agent to Afalon®, Bromoxynil or methabenzthiazuron® mixtures.
2. When mixing with bromoxynil + MCPA, Tigrex or MCPA LVE add non-ionic surfactant at the rate

recommended on the label eg. Activator surfactant at the rate of 150mL per 100L water. Some reduction in grass weed control and speed of action can be expected with these mixtures but to minimise this, use a minimum of 80L water per ha by ground and 30L by air, and if wild oats are present, use 2.0L Nugrass/ha (except barley). DO NOT use Bromoxynil + MCPA at rates above 1.4L/ha when mixing with Nugrass.

3. Nugrass and Du Pont Ally are physically compatible but when this mixture is used a significant reduction in grass weed control can be expected. Add wetting agent to this mixture as for Nugrass at recommended rates. Consult company representatives for further advice.
4. Allow at least 10 days between any application of Nugrass and other herbicides containing 2, 4-D, MCPA, dicamba or other similar sprays, which should preferably follow Nugrass.
5. For use in oilseed poppies in Tasmania only: Nugrass may be mixed with pesticides as recommended by the Department of Primary Industry or the poppy contracting company.
6. Where Phalaris is present, Nugrass and Puma may be applied together at the respective recommended rates. Wetting agent should be added to this mixture at the rate recommended on the Nugrass label.

RESISTANT WEEDS WARNING

Nufarm Nugrass Selective Herbicide ("Nugrass") is a member of the Aryloxyphenoxypropionates ("Fops") group of herbicides. Nugrass has the inhibitors of acetyl coA carboxylase mode of action. For weed resistance management Nugrass is a Group A herbicide. Some naturally occurring weed biotypes resistant to Nugrass and other inhibitors of acetyl coA carboxylase 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 Nugrass or other inhibitors of acetyl coA carboxylase 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 Nugrass to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS.

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Crops particularly susceptible include maize, sorghum and rice. DO NOT plant maize, sorghum and rice for 10 weeks after application.

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STORAGE AND DISPOSAL

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Hoegrass, Afalon and Puma are registered trademarks of Hoechst AG.
Tigrex is a registered trademark of Rhone-Poulenc Netherlands.
Ally is a registered trademark of E.I. DuPont de Nemours & Co. Inc.,
Wilmington, Delaware, USA.

In case of emergency: Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.