

POISON

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

Nufarm

PARAGON[®]

Herbicide

ACTIVE CONSTITUENTS: 500 g/L MCPA PRESENT AS THE ETHYL HEXYL ESTER
50 g/L PICOLINAFEN

GROUP **FI** HERBICIDE

For the control of certain broadleaved weeds in winter cereals as indicated in the DIRECTIONS FOR USE table.

Contents: 5 Litres
20 Litres
110 Litres
bulk

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



® Registered trademark of BASF

DIRECTIONS FOR USE:

RESTRAINTS:

DO NOT apply to crops that are stressed through disease, insect damage, frost, nutrient deficiencies, other herbicide use, excessively moist or dry conditions, or inappropriate soil type.

DO NOT apply to weeds that are stressed due to dry conditions, prior herbicide application, etc.

DO NOT apply if rain is expected within four hours.

DO NOT add spraying oil to PARAGON or PARAGON tank mixes.

Crop	Weeds	Weed Stage	Rate/ha	Critical Comments
Wheat, barley, oats, triticale, cereal rye (including undersown with clover)	Wild radish (<i>Raphanus raphanistrum</i>)	Up to the 2 leaf stage and not more than 60mm in diameter. (WA only)	125mL	Apply to actively growing weeds, free from stress. See "Restrains". Apply to crops in the 3 to 5 leaf (Z13 to Z15) stage prior to late tillering. DO NOT use the 500 mL/ha rate on crops younger than 5 leaf. Do NOT apply rates higher than 250 m/Lha to crops in the 3 leaf stage, especially long-season varieties. PARAGON may cause transient yellowing of cereals, with oats being potentially most sensitive. Residual control can be impaired by dry soil conditions and by inadequate soil surface coverage. Good soil moisture before and after application will assist performance. Good spray coverage of weeds is essential. Spray before crop canopy begins to close. Increase spray volume when weed or crop density is high. Transplanted weeds will not be adequately controlled.
		Up to the 4 leaf stage and not more than 120mm in diameter.	250mL	
		Up to the 6 leaf stage and not more than 150mm in diameter.	375mL	
		Up to the 8 leaf stage and not more than 180mm in diameter.	500mL	
	Charlock (<i>Sinapsis arvensis</i>), hedge mustard (<i>Sisimbrium officinale</i>), Indian hedge mustard (<i>Sisimbrium officinale</i>), mustard (<i>Sisimbrium</i> spp.), prickly lettuce (<i>Lactuca serriola</i>), shepherd's purse (<i>Capsella bursapastoris</i>), turnip weed (<i>Rapistrum rugosum</i>), wild turnip (<i>Brassica tournefortii</i>)	Up to the 2 leaf stage and not more than 60mm in diameter.*	250mL	* Weed diameter does not apply to prickly lettuce.
		Up to the 4 leaf stage and not more than 120mm in diameter.*	375mL	
		Up to the 8 leaf stage and not more than 150mm in diameter.*	500mL	
	Capeweed (<i>Arctotheca calendula</i>)	Up to the 2 leaf stage and not more than 60mm in diameter.	250mL	
		Up to the 4 leaf stage and not more than 120mm in diameter.	500mL	
	Canola (<i>Brassica napus</i>)	Up to the 4 leaf stage.	250mL	
	Crassula (<i>Crassula</i> spp.)	Up to the 2 leaf stage.	250mL	
		Up to the 4 leaf stage.	375mL	
	Corn gromwell (<i>Buglossoides arvensis</i>), saffron thistle (<i>Carthamus lantanus</i>), toad rush (<i>Juncus bufonius</i>)	Up to the 2 leaf stage.	500mL	
Dense-flower fumitory (<i>Fumaria densiflora</i>)	Up to the 2 leaf stage.	375mL		
Common sowthistle** (<i>Sonchus oleraceus</i>), doublegee** (<i>Emex australis</i>)	Up to the 2 leaf stage.	500mL	** <u>Suppression only</u> . These species are not consistently controlled by PARAGON Herbicide, but are usually significantly affected.	
Deadnettle** (<i>Lamium amplexicaule</i>), fumitory** (<i>Fumaria</i> spp.), volunteer lupins** (<i>Lupinus angustifolius</i>)	Up to the 4 leaf stage.			

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 STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Nufarm PARAGON Herbicide is a post-emergence, foliar-absorbed product with short soil residual activity. Under favourable conditions, this pre-emergence activity will provide some control of subsequently germinating weed seedlings.

MIXING

Half fill the spray tank with clean water. Commence agitation and add the required amount of product to the tank. Maintain agitation whilst filling the tank and throughout the spraying operation.

APPLICATION

Ground application: Apply in a minimum of 50 litres of water per hectare. In dense weed and crop situations, increase the water volume to ensure complete coverage.

Aerial application: Apply in a minimum 30 litres of water per hectare. Good coverage of weeds is essential.

Avoid swath overlaps and do not overspray headlands.

COMPATIBILITY

Nufarm PARAGON Herbicide is physically compatible with Ally⁺/Associate^{*}, Fastac⁺ Duo, Glean, Hoegrass⁺/Nugrass^{*}, Logran⁺/Nugran⁺, Lontrel⁺/Archer^{*}, MCPA EHE, Rogor, Topik, Tristar and Wildcat. DO NOT add spraying oil to PARAGON or PARAGON tank mixes. As water quality can influence compatibility, it is recommended that mixtures should be bottle-tested in the water intended for spraying, prior to mixing commercial quantities.

CROP SAFETY

Following application, some transient yellowing of cereal foliage may occur. This spotting is confined to leaves present at application. The development of the crop and subsequent new growth is unaffected in crops growing free of stress. Symptoms will be more pronounced and persistent in crops that are growing under stress (see Restraints).

Avoid swath overlapping.

RESISTANT WEEDS WARNING

GROUP F HERBICIDE

Nufarm PARAGON Herbicide ("Paragon") is a member of the aryloxyacolinamide and phenoxy groups of herbicides and acts by inhibiting carotenoid biosynthesis and disrupting plant cell

growth respectively. For weed resistance management PARAGON is a Group F and Group I herbicide. Some naturally occurring weed biotypes resistant to this product and other Group F and/or Group I 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 this product or other Group F and/or Group I 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 this product to control resistant weeds.

PRECAUTION

Human flaggers must be protected by engineering controls such as vehicles with enclosed cabs.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas for 24 hours. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist, face-shield or goggles and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands and pastures. Canola, cotton, tobacco, grapevines, lupins, fruit trees, ornamentals, tomatoes and other vegetables are especially susceptible to spray drift and vapour movement.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

Toxic to algae. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

DO NOT apply by ground application to portions of fields within 20 m upwind of sensitive water bodies. DO NOT apply by aerial application to portions of fields within 250 m upwind of sensitive wetlands or water bodies.

DO NOT apply under meteorological conditions or from spray equipment that will cause spray drift onto non-target native vegetation or adjacent areas, and in particular avoid any natural wetland or standing water body.

DO NOT allow run-off within two days of application - avoid application to waterlogged soil, over-irrigation or use when heavy rains are forecast.

STORAGE AND DISPOSAL

5, 20 L packs:

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 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

110 L pack:

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

Empty container by pumping through the dry-break Micro Matic connection system. DO NOT attempt to unscrew the Micro Matic valve or breach the locked filling point. DO NOT contaminate the container with water or other foreign material.

Ensure that the Micro Matic coupler, pump, meter and hoses are disconnected, triple rinsed with clean water and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. DO NOT dispose of undiluted chemicals on-site. This container remains the property of Nufarm Australia Limited.

Bulk packs:

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

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

DO NOT dispose of undiluted chemicals on-site. This container remains the property of Nufarm Australia Limited.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

MATERIAL SAFETY DATA SHEET

Additional information is listed in 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 judgement 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.

In case of emergency:

Phone 1800 033 498

Ask for shift supervisor. Toll free 24 hours.
For Technical Enquiries call 1800 639 899

APVMA Approval No.: 58896/5L/0105
58896/20L/0105
58896/110L/0105
58896/BULK/0105

Batch No:

Date of Manufacture:

Barcode

DrumMuster logo (5L, 20L only)



- ® Registered trademark of BASF
- * Associate, Nugrass & Archer are registered trademarks of Nufarm Australia Limited.
- + Other registered trademarks