

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Barrage Herbicide

ACTIVE CONSTITUENTS: 468 g/kg DIURON
132 g/kg HEXAZINONE

GROUP	C	HERBICIDE
--------------	----------	------------------

For the control of a wide range of annual and perennial grasses, broadleaf weeds and vines in established sugar cane.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

2 kg measure packs:

NOT TO BE SOLD SEPARATELY

BEFORE USE READ ALL DIRECTIONS ON THE OUTER PACK AND LABEL LEAFLET

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road, Laverton North Victoria 3026
Tel: (03) 9282 1000
nufarm.com.au

Barrage® trade mark owned or used under license by Nufarm Australia Ltd.

APVMA Approval No.: 59557/100309

Net Contents: 10kg

Net Contents:

10kg (5 x 2kg measure packs – which it is illegal to sell separately)

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area, out of direct sunlight. Single rinse before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State and Territory government regulations. Empty containers and product should NOT be burnt.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length PVC gloves. Wash hands after use. After each day's use wash gloves 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.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Use personal protective equipment as required. Do not breathe dust or spray. IF exposed or concerned: Get medical advice/attention.

SAFETY DATA SHEET

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

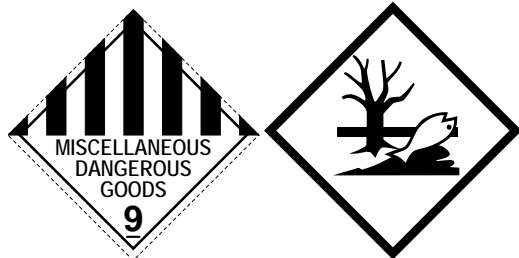
In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

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



ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIURON)
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

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Barrage Herbicide

ACTIVE CONSTITUENTS: 468 g/kg DIURON

132 g/kg HEXAZINONE

GROUP	C	HERBICIDE
--------------	----------	------------------

For the control of a wide range of annual and perennial grasses, broadleaf weeds and vines in established sugar cane.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road, Laverton North Victoria 3026
Tel: (03) 9282 1000
nufarm.com.au

APVMA Approval No.: 59557/100309

DIRECTIONS FOR USE**RESTRAINTS**

DO NOT spray over sugar cane or allow excessive spray contact as crop injury may result.
DO NOT re-plant treated areas to any other crop within two years after last application as injury to subsequent crop may result.
DO NOT use on light sandy soils as crop injury may result.
DO NOT use in water-logged areas.
DO NOT use in young plant cane.
DO NOT use equipment or spraying methods which cause spray or spray drift to contact the growing point of sugar cane.
DO NOT apply if greater than 50 mm rainfall is expected within 3 days of application
DO NOT irrigate within 3 days of application
DO NOT apply to fields where the slope exceeds 3%
DO NOT spot spray more than 5% of total farm areas
DO NOT apply more than once per calendar year

SPRAY DRIFT RESTRAINTS

DO NOT apply by air
DO NOT apply when wind speed is less than 3 or more than 20 kilometers per hour as measured at the application site.
DO NOT apply with spray droplets smaller than COARSE spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the BCPC Guideline.

Users of this product MUST make an accurate written record of the details of each spray application within 24 hours following application and KEEP this record for a minimum of 2 years. The spray application details that must be recorded are: 1. Date with start and finish times of application; 2. Location address and paddock/s sprayed; 3. Full name of this product; 4. Amount of products used per hectare and number of hectares applied to; 5. Crop/situation and weed/pest; 6. Wind speed and direction during application; 7. Air temperature and relative humidity during application; 8. Nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; 9. Name and address of person applying this product. (Additional record details may be required by the State or Territory where this product is used).

MANDATORY NO-SPRAY ZONES - Barrage alone

DO NOT apply when there is non-target vegetation within 200m downwind from the application area

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within 100m downwind from the application area

Situation/Crop	Weeds Controlled	State	Rate	Critical Comments
Sugar Cane	Weed seedlings of <i>Amaranthus</i> spp., Awnless barnyard grass, Barnyard grass, Bluetop (Billygoat weed), Coast button grass, Cobbler's pegs, Common Sida, Crowsfoot grass, Green Summer grass, Guinea grass, Phyllanthus, Pigweed, Rattlepod, <i>Setaria</i> spp., Square weed, Summer grass, Thickhead	NSW, Qld only	4kg/ha	<p>Ratoon cane (after harvesting):</p> <p>DO NOT apply in the Wet Tropics DO NOT apply in the Burdekin between 1 December and 29 February DO NOT apply in Mackay/Whitsunday between 1 November and 31 May DO NOT apply in Mary-Burnett between 1 November and 31 May DO NOT apply in NSW between 1 November and 30 April</p> <p>Apply after harvest and before crop and weed emergence. If applying as a band treatment avoid throwing excessive untreated soil onto the treated band when inter-row cultivating. DO NOT apply more than 4kg/ha during the season.</p>
	Weeds as above and including: Bellvine, Common morning glory, Cupid's flower (Star of Bethlehem), Common Sensitive plant, Passion fruit vine, Pink convolvulus, Red convolvulus		3-4kg/ha	<p>Ratoon and plant cane (Post-emergent):</p> <p>APPLY ONLY as a directed band spray over a maximum of 60% of the crop area DO NOT apply in the Wet Tropics DO NOT apply in Burdekin between 1 January and 29 February DO NOT apply in Mackay/Whitsunday between 1 November and 31 May DO NOT apply in Mary-Burnett between 1 November and 29 February DO NOT apply in NSW between 1 November and 31 March</p>
	Giant Sensitive plant, Itch grass, Wild rose, Centro, Pinkburr, Stinking passion flower	Qld only		<p>Apply as a directed spray, full width between rows or as a band treatment at last cultivation or close-in to weed free surface. If emerged annual weeds (15cm or less in height) are present ensure thorough spray coverage is achieved. Use as a directed spray to minimise spray contact with cane plant as injury to cane may result.</p> <p>DO NOT use anymore than 4kg/ha during the season. Treated areas may be replanted to sugar cane one year after last application. DO NOT treat at out-of-hand stage, ratoon blocks that are to be replanted soon after harvest. Some itch grass plants germinating from a depth unprotected by the chemical may not be controlled.</p>
	Guinea grass	NSW, Qld only	1kg/100L	<p>SPOT SPRAY ONLY - Spray when Guinea grass stools are at least 15cm high for best results. Wet thoroughly to point of run-off. Avoid contact with adjacent cane as crop injury may result.</p>

MANDATORY NO-SPRAY ZONES - Barrage—Paraquat mixtures (Shirquat® 250 Herbicide)

DO NOT apply when there is non-target vegetation within 50m downwind from the application area

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within 25m downwind from the application area.

CROP	WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE / ha	CRITICAL COMMENTS
Sugar Cane	<i>Amaranthus</i> spp., Arsenic Weed, Awnless Barnyard Grass, Barnyard Grass, Bluetop (Billygoat Weed), Calopo Vine, Centro, Coast Button Grass, Cobbler's Pegs, Common Morning-glory, Common Sensitive Plant, Common Sida, Crowsfoot Grass, Cupid's Flower (Star-of-Bethlehem), Giant Sensitive Plant, Green Summer Grass, Guinea Grass, Itch Grass, Milkweed, Passion Fruit Vine, Phyllanthus, Pigweed, Pink Burr, Pink Convolvulus, Rattlepod, Red Convolvulus, <i>Setaria</i> spp., Siratro, Square Weed, Stinking Passion Flower, Summer Grass, Thickhead, Wild Rose.	Up to 5 cm high	Qld, NSW, WA, NT only	530 g plus 1.2 to 1.6 L Shirquat 250	Apply only as directed spray on plant and ratoon cane using an Irvine spray boom (or similar equipment). Complete spray coverage on the weed is essential. For weeds up to 5 cm high, use a minimum spray volume of 250 L/ha.
		Up to 10 cm high		900g plus 1.2 to 1.6 L Shirquat 250	For weeds up to 10 cm high use a minimum spray volume of 350 L/ha. Use the higher rate of Shirquat 250 for dense and more mature weeds. Always add BS 1000 at 100 mL/100L of final spray volume (0.1% volume/volume).

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Barrage is a soil residual, broad spectrum, general herbicide for control of a wide range of annual and perennial grasses, broadleaf weeds and vines. Best results are achieved if Barrage is applied just before weed growth occurs. For boom application, well established weeds should first be removed by mechanical or other means. For best results soil should be well prepared as free as possible from trash and clods. Apply to moist soil. Results vary with soil type and environmental conditions. Effects are slow to appear and may not become apparent until sufficient moisture (12-25mm on moist soils, 25-50mm on dry soils) in the form of rainfall or irrigation occurs after treatment to carry the product into the root zone of the germinating weeds. Best results are obtained if rainfall or irrigation occurs within 4-10 days after application.

With irrigation, thoroughly wet-up entire treated area, however, care should be taken not to over-water and cause run-off. All rates of Barrage are expressed as overall rates. Use proportionately less, ie, use only half of the overall rate when treating one half of the area. Temporary chlorosis of lower leaves may occur. To minimise this injury use low directed spray application. Tolerance of cane variety should be determined before treating large areas.

RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
-------	---	-----------

Barrage Herbicide (Barrage) is a member of the triazinone and urea group of herbicides. Barrage Herbicide has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management Barrage Herbicide is a group C herbicide. Some naturally-occurring weed biotypes resistant to Barrage Herbicide and other Group C 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 Barrage Herbicide 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 Barrage Herbicide to control resistant weeds. 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 MIXING

This product mixes readily with water, no pre-mixing is required. Fill the spray tank at least half full with water. Weigh the correct amount of Barrage Herbicide. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser. Add Barrage to the spray vat SLOWLY and STEADILY with continuous agitation. DO NOT DUMP all required product into vat at once. Continuous agitation in the spray tank is required to keep the material in suspension. Mechanical agitation is preferred, although hydraulic agitation is satisfactory if pump has sufficient volume to return at least 5% of the tank capacity per minute when the sprayer is in operation. When by-pass or return line is used, it should terminate at the bottom of the tank to minimise foaming. DO NOT USE AIR AGITATION. When the product has been thoroughly dispersed, add surfactant / wetting agent if required. Agitate vigorously from the bottom if allowed to stand.

Fixed Boom Power Sprayer

Spray booms must be shut off while starting, turning, slowing or stopping, as overdose may result in injury to the crop. Use sufficient water (400-600L/ha of area actually sprayed) to provide thorough and uniform coverage. Use sufficient pressure to allow to penetrate, 250-350kPa is the pressure range generally used. Higher pressures should be avoided to prevent spray drift on to non-target areas.

Use of surfactant or wetting agent

If weed growth is established and cannot be removed by other means the use of non-ionic surfactant may increase wetting of leaves and increase the knockdown effectiveness of the treatment. Use BS1000 at 250-500mL/100L of final spray volume (0.25%-0.5% volume/volume). For perennial weeds and grasses use the higher rate of surfactant. Best results are obtained where weeds and grasses are growing under conditions of high humidity and temperatures higher than 21°C.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply or drain or flush equipment on 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 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 allow drift of dry powder onto desirable plants. DO NOT use on lawns, walkways, driveways, tennis courts or similar areas.



spraywisedecisions.com.au is an online weather forecasting program and is recommended for use when planning your pesticide application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area, out of direct sunlight. Single rinse before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State and Territory government regulations. Empty containers and product should NOT be burnt.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length PVC gloves. Wash hands after use. After each day's use wash gloves and contaminate 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.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Use personal protective equipment as required. Do not breathe dust or spray. IF exposed or concerned: Get medical advice/attention.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – 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."

® All trade marks owned or used under license by Nufarm Australia Ltd.