



The miracles of science®

DuPont™ Hyvar® X

herbicide wettable powder

Technical Information

Active Constituent:
800 g/kg BROMACIL

Pack Sizes:
5 kg

GROUP **C** HERBICIDE

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

For the control of certain annual broadleaved weeds and grasses in citrus, pineapple, asparagus and in commercial and industrial areas, rights of way and around agricultural buildings as per Directions for Use table

SAFETY DIRECTIONS

May irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. **DO NOT** inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEETS

For further information refer to the Material Safety Data Sheet that can be obtained from <http://www.cropprotection.dupont.com.au>

GENERAL INSTRUCTIONS

For best results apply shortly before weed growth occurs to moist well prepared trash and clod free soil. Well established weeds should be removed before applying the product. Actively growing weeds up to about 10 cm in height may be controlled, but a wetting agent must be used.

DO NOT cultivate soil surface after application as efficacy may be reduced and/or crop injury may result. For best results sufficient moisture, either by rainfall or irrigation, is required within 3–4 days of treatment to carry the product into the soil. With irrigation, thoroughly wet the entire area. Where rainfall is limited during the growth period, control of deep-rooted hard-to-kill weeds will not be satisfactory.

RESISTANT WEEDS WARNING

DuPont™ Hyvar® X herbicide is a member of the Uracils group of herbicides. The product has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management, the product is a Group C herbicide.

Some naturally-occurring weed biotypes resistant to the product 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 this product or other Group C herbicides.

GROUP **C** HERBICIDE

Since the occurrence of resistant weeds is difficult to detect prior to use, DuPont accepts no liability for any losses that may result from failure of this product 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 DuPont Representative.

EQUIPMENT AND APPLICATION

Mix the product into a minimum of 20 L water per kg of product.

Large Areas

Use a fixed boom sprayer or handgun. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser. Always agitate in spray tank to keep material in suspension.

(a) Fixed Boom Sprayer

Use 1000 – 2000 L/ha water for industrial weed control. For selective weed control use 250 – 450 L/ha at 200 - 300 kPa pressure.

(b) Handgun

Use 1000 - 2000 L/ha and 60 – 800 kPa pressure.

Small Areas

Use a knapsack or pressurised hand sprayer or water can. Shake or stir frequently.

SPRAYER CLEANUP

Thoroughly clean all traces of Hyvar® X herbicide from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing spray nozzles and screens (clean these parts separately).

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 where their roots may extend. **DO NOT** allow dry powder or spray to drift onto desirable plants. Movement of soil from treated areas should be avoided because damage to off-target species may occur.

Asparagus

DO NOT apply to newly seeded asparagus, or to young plants during the first growing season after setting or to plants whose roots are exposed.

Citrus

Use with caution on light sandy soils as yellowing may occur.

Treated area for asparagus and citrus - **DO NOT** replant any crops within three (3) years of last application as injury may occur.

Pineapples

Only pineapples can be replanted into the same area within the 3 year plan.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

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 chemical on site. Puncture and bury empty containers in a local authority landfill. If no landfill is available bury the container 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.

IN A MEDICAL EMERGENCY CALL

1800 674 415 All hours

NOTICE TO BUYER

To the extent permitted by law all conditions and warranties and statutory or other rights of action which buyer or other user may have against DuPont or Seller are hereby excluded. DuPont hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information or advice provided by DuPont on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. DuPont's liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price paid therefor.

APVMA Approval Number: 31348/0310

DIRECTIONS FOR USE

RESTRAINTS

DO NOT allow spray to contact foliage or fruit of desirable plants.

For best results sufficient moisture, either by rainfall or irrigation, is required within 3 - 4 days of treatment to carry the product into the soil.

CROP/SITUATION	WEEDS CONTROLLED	STATES	RATE/HA**	CRITICAL COMMENTS
Asparagus older than 1 year	Annual Weeds: Annual ryegrass, Barley grass, Bathurst burr, Brome grass, Caltrop, Capeweed, Cobbler's-pegs, Doublegee (Spiny emex / Threecornered Jack), Fat-hen, Khaki weed (seedling), Noogoora burr, Paterson's curse, Prairie grass, Annual ragweed, Saffron thistle, Summer grass, Thornapple, Wild mustard, Wild oats, Wild radish, Wild turnip, Winter grass.	All States	1.1 to 2.5 kg	Apply after cultivation to established plantings only as damage may occur to young plantings. Apply 3 - 4 weeks prior to spear emergence in Spring or before the early cutting period. If cultivation occurs during cutting period apply immediately after last cultivation. If needed, apply a second spray after harvest to keep fields weed-free. Irrigate before or as soon as possible after spraying. (See Crop Safety Section). NB: For Wild Oat control, use no less than 2.5 kg/ha.
			1 kg / 500 L water	Spot Spray: Wet weeds thoroughly to point of run-off. (See Crop Safety Section).
Citrus Established groves only	Annual Weeds: As for Asparagus	All States	2.2 to 4.5 kg	* Apply to weed-free ground in Autumn and Spring. After 1-2 years of application, once per year may be adequate. DO NOT apply more than 9 kg/ha/year. (See Crop Safety Section) NB: For Wild Oat and Caltrop control, use no less than 3 kg.
	As Above		*Spot Treatment: Spray to point of run-off. (See Crop Safety Section).	
Pineapples	Barnyard grass, Billygoat weed / Bluetop, Cobbler's-pegs, Crowsfoot, Guinea grass, Red natal grass, Sourgrass, Stinking roger, Summer grass, Thickhead	Old and NT Only	2.2 kg	Apply as a blanket spray prior to weed emergence immediately after planting or before planting material begins to grow. *If needed apply as a direct inter-row spray prior to flower differentiation. DO NOT spray over top of plants. DO NOT apply more than 9 kg/ha/year.
			3.5 to 6.5 kg	*The lowest rate will provide control in low rainfall areas. (250 mm or less).
Industrial Weed Control Commercial & Industrial areas Rights of way Around agricultural buildings	Annual Weeds: As for Asparagus	All States	2 to 6.5 kg	*Apply when weeds and grasses re-appear on sites where growth has been controlled.
	Retreatment: All the above weeds		20 g/10 m ² (20 kg/ha)	*
	Small Areas: Annual and Perennial Weeds			

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

* If weeds are present add non-ionic surfactant at 100 mL/100 L (0.01 % v/v) of spray solution.

** Use lower rates on lighter soils low in clay or organic matter and higher rates on heavier soils high in clay or organic matter.

WITHHOLDING PERIOD

NOT REQUIRED WHEN USED AS DIRECTED

The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable. It is intended for use by persons having technical skill at their own discretion and risk. DuPont makes no warranties, expressed or implied, and assumes no liability in connection with any of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe on any patents.

Copyright © 2012 E.I. du Pont de Nemours and Company. All rights reserved.

The DuPont Oval Logo, The miracles of science®, DuPont™, and Hyvar® are trademarks or registered trademarks of DuPont or its affiliates.

* Non DuPont Trademark

Du Pont (Australia) Limited
7 Eden Park Drive,
Macquarie Park NSW 2113
Phone: (02) 9923 6111
<http://www.cropprotection.dupont.com.au>

Emergency Telephone
Transport Emergency: (02) 9923 6275
24 hr Emergency Medical Information: 1800 674 415