

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



DuPontTM

Velpar[®] K4TM DF[®]

herbicide

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

GROUP	C	HERBICIDE
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For the control of a wide range of annual and perennial grasses, broadleaved weeds and vines in established sugarcane

**CONTAINS 5 X 2 kg MEASURE PACKS WHICH IT IS ILLEGAL TO SELL SEPARATELY.
IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE.**

Net Contents: 10 kg

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 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.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing 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.

<p align="center">IN A MEDICAL EMERGENCY CALL 1800 674 415 All hours</p>
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MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet

NOTICE TO BUYER

To the extent permitted by law all conditions and warranties and statutory or other right of action which buyer of any 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 or on its behalf unless it is established that such information 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.

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APVMA Approval No: 45909/10/1112

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Batch No:
DOM:

A00224867/06-06

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

DuPont™ Velpar® K4™ DF® herbicide

**ACTIVE CONSTITUENT: 468 g/kg DIURON
132 g/kg HEXAZINONE**

GROUP**C****HERBICIDE**

For the control of a wide range of annual and perennial grasses, broadleaved weeds and vines in established sugarcane

GENERAL INSTRUCTIONS

DuPont™ Velpar® K4™ DF® is a soil residual, broad spectrum, general herbicide for control of many annual and perennial grasses, broadleaf weeds and vines.

Best results occur if Velpar® K4™ DF® herbicide is applied shortly before weed growth occurs. Well established weeds should first be eliminated by mechanical or other means. For best results soil should be well prepared as free as possible from trash and clods. Application to moist soil is preferred.

Results vary with soil type (lower rates are effective on lighter soils, higher rates may be necessary for effective control on heavier soils) and environmental conditions. Effects are slow to appear and may not become apparent until sufficient moisture (12 – 25 mm on moist soils, 25 – 50 mm on dry soils) in the form of rainfall or irrigation occurs after treatment to carry the chemical into the root zone of the germinating weeds. Best results are obtained if rainfall or irrigation occurs within 3 - 4 days after application. With irrigation, the entire treated area must be thoroughly wetted, however, care should be taken not to over-water and cause run-off.

All dosages of Velpar® K4™ DF® herbicide are expressed as overall rates. For band treatment 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

DuPont™ Velpar® K4™ DF® herbicide contains members of the triazinone and urea groups of herbicides. The product has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management, the product contains Group C herbicides.

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.

Since the occurrence of resistant weeds is difficult to detect prior to use, Du Pont (Australia) Limited accepts no liability for any losses that may result from the 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

Weigh the proper amount of Velpar® K4™ DF® herbicide and mix into necessary volume of water. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser. 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 bottom of tank to minimise foaming. **DO NOT USE AIR AGITATION.**

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 – 600 L/ha of area actually sprayed) to provide thorough and uniform coverage. Use sufficient pressure to allow spray to penetrate, 250 - 350 kPa 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 the use of a non-ionic surfactant may aid wetting of leaves and increase the knockdown effectiveness of the treatment. Use non-ionic surfactant (1000 gac/L) at 250 mL - 500 mL/100 L of final spray volume (0.25 % - 0.5 % volume/volume). For perennial weeds and grasses use the higher rate of surfactant.

When using Velpar® K4™ DF® and paraquat mixtures, add a non-ionic surfactant (1000 gac/L) at 100 mL/100 L of final spray volume (0.1% volume/volume).

Best results are obtained where weeds are growing under 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** allow drift of dry powder or spray onto desirable plants. **DO NOT** use on lawns, walkways, driveways, tennis courts or similar areas.

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 well-ventilated area, as cool as possible but out of direct sunlight.

DO NOT contaminate or store near feed or foodstuffs, pesticides or seeds.

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

DuPont™ Velpar® K4™ DF® -only**DIRECTIONS FOR USE****RESTRAINTS:**

DO NOT use in water-logged areas

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

DO NOT spray over sugarcane or allow excessive spray contact as crop injury may result.

DO NOT replant 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 injury to cane 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 the sugarcane.

SPRAY DRIFT RESTRAINTS

DO NOT apply by air

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 that must be recorded are: 1. Data 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

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

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

Crop	Weeds controlled	State	Rate of Application	Critical Comments
Sugarcane	Weed seedlings of Amaranthus 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, Setaria spp., Square weed, Summer grass, Thickhead	NSW, Qld, only	4 kg/ha	Ratoon cane (after harvesting) 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 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 4 kg/ha during the season. Ratoon and plant cane: 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 the between Burdekin 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 Apply as 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 (15 cm 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. DO NOT use any more than 4 kg/ha during the season. Treated areas may be replanted to
	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 -4 kg/ha	
	Giant sensitive plant, Itch grass, Wild rose, Centro, Pink burr, Stinking passion flower	Qld only		

Product Name: DuPont™ Velpar® K4™ DF® herbicide	Label component: Label/leaflet
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				sugarcane 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.
	Guinea grass	NSW, Qld, only	1 kg/100 L	SPOT SPRAY ONLY- Spray when Guinea grass stools are at least 15 cm high for best result. Wet thoroughly to point of run-off. Avoid contact with adjacent cane as crop injury may result.

DuPont™ Velpar® K4™ DF® - Paraquat mixtures**RESTRAINTS:**

DO NOT use in water-logged areas

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

DO NOT spray over sugarcane or allow excessive spray contact as crop injury may result.

DO NOT use equipment or spraying methods that cause spray or spray drift to contact the growing point of the sugarcane.

DO NOT through aircraft, misting machines or hand-held ultra low volume controlled droplet applicators (CDA units).

DO NOT spray plants that are waterlogged, or under stress of any kind, or covered with soil or dust.

DO NOT spray plants covered with heavy dew, but rain following spraying will not affect results.

DO NOT replant treated areas to any other crop within two years after last application as injury to subsequent crop may result.

SPRAY DRIFT RESTRAINTS

DO NOT apply by air

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 that must be recorded are: 1. Data 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

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

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

Product Name: DuPont™ Velpar® K4™ DF® herbicide	Label component: Label/leaflet
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Crop	Weeds controlled	Weed Growth Stage	State	Rate of Application	Critical Comments
Sugarcane (plant & ratoon)	<i>Amaranthus</i> spp., Arsenic weed, Awnless barnyard grass, Barnyard grass, Bellvine, Bluetop (Billygoat weed), Calopo vine, Centro, Coast button grass, Cobbler's-pegs, Common Morning-glory, Common Sida, Common sensitive plant, Crowsfoot grass, Cupid's-flower (Star-of-Bethlehem), Giant sensitive plant, Green Summer grass, Guinea grass, Itch grass, Milkweed, Passion fruit vine, <i>Phyllanthus</i> , 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	NSW, Qld, WA, NT only	600 g/ha plus 1.2 to 1.6 L/ha DuPont™ Boa® herbicide (250 g/L paraquat formulations)	Apply only as a directed spray on plant and ratoon cane using an Irvine spray boom (or other similar equipment). Complete spray coverage on the weeds is essential. For weeds up to 5 cm high, use a minimum spray volume of 250 L/ha. Always add a non-ionic surfactant (1,000 gac/L) at 100 mL/100 L of final spray volume (0.1% volume/volume).
		Up to 10 cm high		900 g/ha plus 1.2 to 1.6 L/ha DuPont™ Boa® herbicide (250 g/L paraquat formulations)	For weeds up to 10 cm high use a minimum spray volume of 350 L/ha. Use the higher rate of DuPont™ Boa® for dense and more mature weeds. Always add a non-ionic surfactant (1,000 gac/L) at 100 mL/100 L of final spray volume (0.1% volume/volume).

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

WITHHOLDING PERIOD

NOT REQUIRED WHEN USED AS DIRECTED

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing 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.

**IN A MEDICAL EMERGENCY CALL
1800 674 415 All hours**

MATERIAL SAFETY DATA SHEET

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DuPont™ Velpar® K4™ DF® herbicide

**ACTIVE CONSTITUENT: 468 g/kg DIURON
132 g/kg HEXAZINONE**

GROUP	C	HERBICIDE
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For the control of a wide range of annual and perennial grasses, broadleaved weeds and vines in established sugarcane

**NOT TO BE SOLD SEPARATELY.
BEFORE USE READ ALL DIRECTIONS ON THE OUTER PACK**

Net Contents: 2 kg

APVMA Approval No: 45909/1112

A0072682/05-06