

Product Name: Agro-Essence Hexdi 600 WG Herbicide
APVMA Approval No: 93942/140985



Label Name:	Agro-Essence Hexdi 600 WG Herbicide
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENTS: 468 g/kg DIURON 132 g/kg HEXAZINONE
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Mode of Action:	GROUP 5 HERBICIDE
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Statement of Claims:	For the Control of a Wide Range of Annual and Perennial Grasses, Broadleaf Weeds and Vines in Established Sugarcane as per the Directions for Use Table.
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Net Contents:	10 kg
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Restraints:	This section contains file attachment.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	
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Trade Advice:	
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General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>This product is a broad spectrum, soil residual herbicide for the control of a wide range of annual and perennial grasses, broadleaf weeds, and vines.</p> <p>Best results are achieved if the product is applied just before weed growth occurs. Well established weeds should first be removed by mechanical or other means. Soil should be moist at time of application and be free from trash and clods.</p> <p>Results vary with soil type and environmental conditions. Lower rates are effective on lighter soils, while the higher rates may be necessary for effective control on heavier soils. Herbicide effects are slow to appear and may not become apparent until sufficient moisture (12 to 25 mm on moist soil, 25 to 50 mm on dry soils) in the form of rainfall or irrigation occurs after treatment to carry the product into the root zone of germinating weeds. Best results are achieved if rainfall or irrigation occurs within 3 to 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.</p> <p>All rates are expressed as overall rates. For band treatments use proportionately less, i.e., use only half the overall rate when treating half the area. Temporary chlorosis of lower leaves may occur. To minimise injury, use low directed spray application. Tolerance of cane varieties should be determined before treating large areas.</p> <p>Equipment and Application</p> <p>Fill the spray tank with water. Weigh the correct amount of the product and add to the spray vat. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser. Keep the material in suspension at all times by continuous agitation. Mechanical agitation is preferred, although hydraulic agitation is satisfactory if the pump has sufficient volume to return at least 5% of the tank capacity per minute when the sprayer is in operation. When the by-pass or return line is used, it should terminate at the bottom of the tank to reduce foaming. DO NOT USE AIR AGITATION.</p> <p>Fixed Boom Power Sprayer</p> <p>Spray booms must be shut off while starting, turning, slowing, or stopping as overdose may result in crop injury. Use sufficient water (400 to 600 L/ha of area actually sprayed) to provide thorough and uniform coverage. Use sufficient pressure (in the range 250 to 350 kPa) to allow spray to penetrate. Higher pressures should be avoided to prevent spray drift onto non-target areas.</p> <p>Use of Surfactant / Wetting Agent</p> <p>Where established weeds are present and cannot be removed by other means, the use of a non-ionic surfactant may increase the wetting of leaves and increase the knockdown effectiveness of the treatment. Use a non-ionic surfactant (1000 gai/L) at the rate of 250 mL to 500 mL/100 L final spray volume (0.25% to 0.5% volume/volume). For perennial weeds and grasses use the higher rate of surfactant.</p> <p>Best results are obtained where weeds and grasses are growing under conditions of high humidity and temperatures higher than 21°C.</p>
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Resistance Warning:	<p>RESISTANT WEEDS WARNING</p> <p>GROUP 5 HERBICIDE</p> <p>Agro-Essence Hexdi 600 WG Herbicide is a member of the triazinone and urea groups of herbicides. Agro-Essence Hexdi 600 WG Herbicide has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management, Agro-Essence Hexdi 600 WG Herbicide is a Group 5 Herbicide. Some naturally occurring weed biotypes resistant to Agro-Essence Hexdi 600 WG Herbicide and other Group 5 herbicides may exist through</p>
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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 Agro-Essence Hexdi 600 WG Herbicide or other Group 5 herbicides.

Since occurrence of resistant weeds is difficult to detect prior to use, Agro-Alliance (Australia) Pty Ltd accepts no liability for any losses that may result from the failure of Agro-Essence Hexdi 600 WG Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultants, local Department of Agriculture of Primary Industries, or Agro-Alliance representative.

Precautions:

Protections:

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.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation, and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

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 Instructions:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

First Aid Warnings:

RESTRAINTS

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

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

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

DO NOT use on light sandy soil as crop injury may result.

DO NOT use in water-logged areas.

DO NOT use in young plant 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

Specific definitions for terms used in this section of the label can be found at

www.apvma.gov.au/spraydrift

DO NOT apply by air.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a COARSE spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zone for boom sprayers – Agro-Essence Hexdi600 WG Herbicide alone

Application Rate	Mandatory Downwind Buffer Zones	
	Natural Aquatic Areas	Vegetation Areas
Up to maximum label rate	100 m	200 m

DIRECTIONS FOR USE

Crop	Weeds Controlled	State	Rate	Critical Comments
Sugarcane	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, <i>Phyllanthus</i> , Pigweed, Rattlepod, <i>Setaria</i> spp., Square weed, Summer grass, Thickhead	NSW, Qld only	4 kg/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.</p> <p>DO NOT apply more than 4 kg/ha during the season.</p>
	Weeds as above including: Bellvine, Common Morning Glory, Cupid's Flower (Star of Bethlehem), Common Sensitive Plant, Passionfruit Vine, Pink Convolvulus, Red Convolvulus		3 – 4 kg/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.</p> <p>DO NOT apply in Mary-Burnett between 1 November and 29 February. DO NOT apply in NSW between 1 November and 31 March.</p> <p>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.</p> <p>DO NOT use any more than 4 kg/ha during the season. Treated areas may be replanted to sugar cane one year after last application.</p> <p>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>
	Giant Sensitive Plant, Itch grass, Wild Rose, Centro, Pink Burr, Stinking Passion flower	Qld only		
	Guinea grass	NSW, Qld only	1 kg per 100 L	<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 occur.</p>

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