

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

Rygel DiHex 900 WG Herbicide

Active Constituent: 702 g/kg DIURON & 198 g/kg HEXAZINONE

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

GROUP	C	HERBICIDE
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APVMA Approval No: 63917/0409

Pack Size: 10kg

GENERAL INSTRUCTIONS

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.

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. 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 (12-25mm on moist soil, 25-50mm 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 – 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 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.

RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
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Rygel Diuron/Hexazinone WG Herbicide contains members of the triazinone and urea group of herbicides. Rygel Diuron/Hexazinone WG Herbicide has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management, Rygel DiHex 900 WG Herbicide is a Group C herbicide.

Naturally-occurring weed biotypes resistant to Rygel Diuron/Hexazinone WG Herbicide and other Group C herbicides may exist through normal genetic variability in any weed population.

They can eventually dominate the weed population if these herbicides are used repeatedly. These herbicides will not be controlled by Rygel DiHex 900 WG Herbicide or other Group C herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Rygel Australia Pty Ltd accepts no liability for any losses that may result from the failure of Rygel DiHex 900 WG Herbicide to control resistant weeds.

Equipment and application

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.**

Fixed Boom Power Sprayer

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

Use of surfactant/wetting agent

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 (1000gai/L) at the rate of 250mL to 500mL/100L final spray volume (0.25% to 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 21⁰C.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

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 drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT use on lawns, driveways, walkways, tennis courts or similar areas.

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 no landfill is available, bury the containers below 500mm 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 and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat and elbow length PVC gloves. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre, Telephone Australia 13 11 26. If in eyes, hold eyes open, flood with water for 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which is available from the supplier.

CONDITIONS OF SALE

The use of Rygel DiHex 900 WG Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Rygel Australia Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Rygel Australia Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

In an Emergency Dial 000 Police or Fire Brigade

DIRECTIONS FOR USE**RESTRAINTS**

DO NOT spray over sugar cane 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 crop injury may result.

DO NOT use in young plant cane.

DO NOT use in waterlogged areas.

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

Crop	Weeds Controlled	State	Rate	Critical Comments
Sugarcane	Weed seedlings of: <i>Amaranthus spp.</i> , 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 spp</i> , Square weed, Summer grass, Thickhead	NSW, Qld only	2.7 kg/ha	<p>Ratoon cane (after harvesting): 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 2.7 kg/ha during the season.</p> <p>Ratoon and Plant cane: 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 (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 2.7kg/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 form a depth unprotected by the chemical may not be controlled.</p>
	Weeds as above including: Bellvine, Common morning glory, Cupids flower, (Star of Bethlehem), Common Sensitive Plant, Passionfruit vine, Pink convolvulus, Red convolvulus		2 – 2.7 kg/ha	
	Giant sensitive plant, Itch grass, Wild Rose, Centro, Pink Burr, Stinking Passion Flower	Qld only		
	Guinea grass	NSW, Qld only	670 g /100L	

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