

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

**Hero<sup>®</sup>**

**SELECTIVE HERBICIDE**

**Active Constituent: 600 g/kg ETHOXYLSULFURON**

**GROUP B HERBICIDE**

**For the post-emergent control of nutgrass in sugarcane as specified in the DIRECTIONS FOR USE table**

### GENERAL INSTRUCTIONS

Hero is a selective sulfonylurea herbicide. It is predominantly a foliar herbicide with less activity via the soil. Hero will not reliably control weeds that emerge after spraying. Results are best under good growing conditions and application to weeds or crop under stress should be avoided.

Initial symptoms of herbicidal activity are a discolouration of the weed with a cessation of growth. The plants may remain in this state until dry conditions cause the weed to collapse and desiccation of the plant tissue occurs.

### Resistant Weeds Warning

Hero Selective Herbicide is a member of the sulfonylurea group of herbicides and has the inhibitor of acetolactate synthase (ALS) mode of action. For weed resistance management Hero is a Group **B** herbicide. Some naturally-occurring weed biotypes resistant to Hero, and other Group **B** herbicides, may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Hero or other Group **B** herbicides.

Do not rely exclusively on Hero for weed control. Use as part of an integrated weed management program involving herbicides with other modes of action and non-chemical methods of control. CropLife Australia resistance management strategies are available from your local agricultural chemical supplier. Refer to these strategies for details of how to manage the build up of resistant weeds on your farm.

Since occurrence of resistant weeds is difficult to detect prior to use Bayer CropScience Pty. Ltd. accepts no liability for any losses that may result from the failure of Hero to control resistant weeds.

### Crop Rotation Recommendations

For advice on recropping intervals for crops other than sugarcane or those listed below, contact your local Bayer CropScience representative.

Crop	minimum recropping interval
Guar bean, Dolichos Lab-Lab	3 months
Navy beans	6 months
Sugarcane	0 days

### Application and Equipment

#### Ground Sprayers

DO NOT apply as a broadcast spray. Apply **only** through directed spraying equipment, for example an Irvin leg fitted with an octopus head attachment, or by appropriate dropper/nozzle configurations to minimise movement of spray off target. It is recommended that a minimum of 250 L water/ha is applied. USE ONLY a MEDIUM spray droplet classification according to ASAE S572 definition for standard nozzles. Refer to the nozzle manufacturer's specification for information on the spray droplet classification associated with your spray nozzles. To obtain effective results thorough coverage is essential.

#### Aircraft

**DO NOT** apply Hero by aircraft.

### Mixing

Before spraying calibrate equipment to determine the quantity of water necessary to uniformly cover the measured area to be treated. Half fill the spray tank with clean water then, with agitators in motion, add the correct amount of Hero directly into the spray tank, then add wetting agent as recommended. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying.

### Use Of Surfactant / Wetting Agent

Addition of a non-ionic wetting agent is recommended. Use the equivalent of 100 mL/100 L of a 1000 g/L formulation of non-ionic wetting agent.

## Sprayer Clean Up

The sprayer must be decontaminated before being used to spray crops other than sugarcane. Ensure that the following operation is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained.

- Apply unused spray to an untreated crop area, or untreated part of the paddock. DO NOT drain unused spray to a single point on the ground, but rather apply it to untreated crop or soil at 250 g product/ha as for treatment of crop
- Drain sprayer of remaining spray mix in spray lines and wash out tank, boom and hoses with clean water.
- Drain again.
- If drainings and rinsings cannot be contained, make sure they will not drain towards sensitive areas such as waterways, desirable vegetation or tree roots.
- Fill the tank with clean water and add 300 mL of chlorine bleach (containing 4% chlorine) per 100 L of water with agitator in motion.
- Flush some bleach solution through booms and hoses and allow remainder to agitate in tank for 10 minutes.
- Remove nozzles and filters and leave to soak in a bleach solution of 500 mL per 10 L of water while tank cleaning is in progress.
- Drain tank and repeat the procedure of flushing with bleach solution.
- Flush the tank, boom and hoses with clean water.

## Compatibility

Compatibilities are under evaluation. Contact your local Bayer CropScience representative for the latest information on compatible products.

## PRECAUTION

### Re-entry Period

Treated fields should not be re-entered until spray deposits have completely dried. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. After each day's use wash gloves and contaminated clothing.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

**Very toxic to aquatic plants.** DO NOT contaminate streams, rivers or waterways with the chemical or used container. Application **must** be planned to avoid run-off. Application should not be made to wet/waterlogged soils. Application should not be made if rain is expected within 48 hours. Irrigation should not occur within 48 hours of application.

Irrigation run-off water from **all** irrigations of the treated cane fields **must** be prevented from entering natural waterways.

Vegetative buffer zones between treated fields and natural waterways are recommended. Headlands and spoon drains should be well maintained so that runoff flow is not accelerated. Steady gradients, even profiles and grassed surfaces on headlands and drains reduce off-farm movement of runoff.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, pastures, waterways or wetlands.

## STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep from contact with fertiliser, other pesticides and seeds.

### *Disposal instructions - 500 g pack*

Rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers 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. Do not re-use empty container for any other purpose.

### *Disposal instructions - 1 L pack*

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers 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. Do not re-use container for any other purpose.

## SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. If product in eyes, wash it out immediately with water. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

**FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre (telephone 13 11 26).

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from [www.bayercropscience.com.au](http://www.bayercropscience.com.au).

**EXCLUSION OF LIABILITY**

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

APVMA Approval No.: 56831/1008

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FOR 24 HOUR SPECIALIST ADVICE  
IN EMERGENCY ONLY  
PHONE 1800 033 111

**DIRECTIONS FOR USE****Restrains**

DO NOT use if rainfall or irrigation is expected to occur within 48 hours of application. Refer to General Instructions – PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.

DO NOT apply to weeds under severe moisture stress.

DO NOT apply Hero if a previous application of a Group B herbicide has been made to the current crop

DO NOT apply in crop under stress from drought, waterlogging, frost or disease.

After application of Hero Selective Herbicide, DO NOT irrigate crop to the point of run-off at any time in the crop's life, unless irrigation run-off water can be retained on the farm.

CROP	WEED	STATE	WEED STAGE	RATE g/ha	CRITICAL COMMENTS
Sugarcane	Nutgrass ( <i>Cyperus rotundus</i> )	Qld, NSW, WA, NT only	4 – 6 leaf	250	Apply <b>in plant or ratoon</b> crops, up to the out-of-hand stage (i.e. when crop is less than 100 cm tall). DO NOT apply by broadcast spray. Hero <b>must</b> be applied as a directed application, e.g. by an octopus head attached to an Irvin leg, or by appropriate dropper/nozzle configurations to minimise movement of spray off target. Addition of a non-ionic wetting agent is recommended. Apply the equivalent of 100 mL/100 L of a 1000 g/L formulation of non-ionic wetting agent. Thorough coverage of the weeds is essential for good weed control. Apply in a minimum of 250 L/ha of water. DO NOT apply more than one application of Hero or other group B herbicide to a crop in one season.

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

**WITHHOLDING PERIODS**

**Harvest: DO NOT HARVEST FOR 19 WEEKS AFTER APPLICATION**

**Grazing: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 19 WEEKS AFTER APPLICATION**