



# Lonhro 100WG

## Herbicide

**GROUP 2 HERBICIDE**

**Active Constituent:** 100g/kg Iodosulfuron-Methyl-Sodium

**Poison Schedule:** S5 (CAUTION)

**APVMA Approval No:** 88829

**Pack Size:**

100g

36 x 100g per carton OR

15 x 100g per carton

**Dangerous Goods Class:**

Not classified as a dangerous good under the Australian Code for Transport and Storage of Dangerous Goods in Australia.

For the post-emergent control of certain broadleaf weeds and grasses in turf and for the suppression of Winter grass and Bahia grass as per the Directions for Use.

### Buffer zones for boom sprayers.

Application rate	Mandatory downwind buffer zones Vegetation areas
Up to maximum label rate	40 metres

### DIRECTIONS FOR USE

Situation	Weed	Rate	Critical Comments
Turf Only apply to kikuyu, buffalo grass or couch grass (common and hybrid couch-grass. NOT Queensland Blue Couch)	<b>Weeds Suppressed</b> Winter grass ( <i>Poa Annua</i> )	150g/ha	Apply to actively growing weeds and not weeds under stress. Always apply a non anionic surfactant or Hasten® at the recommended rate on the surfactant product label.
	<b>Weeds Controlled</b> Ryegrass ( <i>lolium perenne</i> )	150g/ha	
	Bindii ( <i>Salvia sessilis</i> ) Black Thistle ( <i>Cirsium vulgare</i> ) Cat's ear ( <i>Hypochoeris radicata</i> ), Cotula ( <i>Cotula australis</i> ), Cudweed ( <i>Gnaphalium</i> sp) Guilford Grass ( <i>Onion Grass</i> ) ( <i>Romulea rosea</i> ) Medic ( <i>Medicago</i> spp.), Mouse ear chickweed ( <i>Cerastium vulgatum</i> ) Oaxlis ( <i>Oxalis corniculata</i> ) White Clover ( <i>Trifolium repens</i> )	100g/ha	Use a water rate of 200L-500L/ha.  Avoid exceeding application rates through overlapping sprayed areas. Safety screening may not have been conducted on all new buffalo varieties and it is therefore recommended that small areas be tested for turf safety before large-scale application occurs.  For suppressed weed species, better efficacy can be expected against younger weed plants. Less than 50% control can be expected when more mature plants are established.

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

**DIRECTIONS FOR USE****RESTRAINTS:**

DO NOT apply by air or through any type of irrigation equipment.

DO NOT apply to turf which is under stress or which is not yet established.

DO NOT use if rain is expected within 4 hours. DO NOT use on golf or bowling greens.

DO NOT make more than one application of a group 2 herbicide in a season except for Bahia grass -refer to Directions for Use table for Bahia grass.

**SPRAY DRIFT RESTRAINTS**

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift)

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 one to two hours before sunset and persist until one to two hours after sunrise.

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

- Spray droplets not smaller than a MEDIUM 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.

**GENERAL INSTRUCTIONS**

Campbell LONHRO 100 WG Herbicide is a selective sulfonylurea herbicide. It is predominantly a foliar herbicide with less activity via the soil. LONHRO 100 WG will not reliably control weeds that emerge after spraying. Results are best under good growing conditions and application to weeds or turf under stress should be avoided.

**MIXING**

Ensure that the spray tank is completely clean prior to mixing. Half fill the spray tank with water, then with agitators in motion, add the correct amount of LONHRO 100 WG directly into the spray tank.

Then add wetting agent or crop oil as recommended. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying. If pH of water carrier is less than 5.5 use a buffer solution to raise pH to meet 7.0. DO NOT mix LONHRO 100 WG with acid forming compounds in the spray vat. DO NOT leave spray mix standing in the vat overnight.

**APPLICATION**

Ensure spraying equipment is properly calibrated before use. Ensure that complete and even spray coverage of all weeds is achieved. DO NOT overlap sprayed areas. Apply with the boom no higher than 50 cm above the turf with flat fan nozzles and a medium droplet size.

**Turf Safety**

Application to very dry sandy soils followed by soaking rainfall may cause turf damage. Turf damage may also be increased in highly alkaline soils (soil pH >8.5 as determined by soil in water suspension). Avoid application on turf which is not yet established or which is under stress from environmental conditions. Allow at least six weeks between the last application and overseeding with cool season grasses for winter cover.

### Sprayer Clean Up

The sprayer must be thoroughly decontaminated before being used again to spray susceptible plants or turf. 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.

1. Drain sprayer completely and wash out tank, boom and hoses with clean water.
  2. Drain again.
  3. Fill the tank with clean water and add 300 ml of chlorine bleach (containing 4% chlorine) per 100 L of water with agitation running.
  4. Flush some bleach solution through booms and hoses and allow remainder to agitate in tank for 10 minutes.
  5. 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.
  6. Briefly run the pump at periodic intervals to refresh chlorine solution in spray lines.
  7. Drain tank and repeat the procedure of flushing with bleach solution.
- Flush the tank, boom and hoses with clean water

<b>GROUP</b>	<b>2</b>	<b>HERBICIDE</b>
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### HERBICIDE RESISTANCE WARNING

Campbell LONHRO 100 WG Herbicide is a member of the sulfonylurea group of herbicides and has the inhibitor of ALS mode of action. For weed resistance management LONHRO 100 WG is a Group 2 herbicide. Some naturally-occurring weed biotypes resistant to LONHRO 100 WG, and other Group 2 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 LONHRO 100 WG or other Group 2 herbicides. DO NOT rely exclusively on LONHRO 100 WG 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 in your turf. Since occurrence of resistant weeds is difficult to detect prior to use, Colin Campbell (Chemicals) Pty Ltd accepts no liability for any losses that may result from the failure of LONHRO 100 WG to control resistant weeds.

### PRECAUTIONS

Mowing Avoid mowing during the 3 to 4 days preceding or following treatment. Re-entry period: DO NOT allow entry into treated areas until the spray has dried.

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

Very toxic to aquatic plants and certain algae. 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 replant any crop or ornamental to treated areas other than the turf grass listed in the directions for use for a period of 12 months after application.

### PROTECTION OF LIVESTOCK

DO NOT graze treated turf or feed turf clippings from any treated area to poultry or livestock.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Keep people and pets off treated areas until spray deposits have dried. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply if heavy rain is forecast.

### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple-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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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 spray wear elbow length PVC gloves and goggles. If product in eyes wash it out immediately with water. Wash hands after use. After each day's use wash gloves and goggles.

**FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 13 11 26, New Zealand 0800 764 766.

**SAFETY DATA SHEET**

For further information, refer to the Safety Data Sheet. A copy can be obtained from the website:  
[www.campbellchemicals.com.au](http://www.campbellchemicals.com.au)

**CONDITIONS OF SALE**

Agricultural, horticultural and pastoral preparations in their application involve varying factors such as differing conditions, soil, climate and methods of application over which Colin Campbell (Chemicals) Pty Ltd (Company) does not have control. Whilst the Company believes that all goods sold by it are true to label and are effective and safe for the purpose indicated, the Company expressly excludes all conditions, guarantees and warranties, whether express, implied, statutory or otherwise, relating in any way to the goods and accepts no responsibility for any loss, harm or damage whatsoever suffered from the use of the goods for any purpose or purposes. Notwithstanding the foregoing, where any legislation implies any condition, guarantee or warranty (each, a Statutory Guarantee) and that legislation prohibits provisions excluding, restricting or modifying the application of, the exercise of a right conferred by or liability under such Statutory Guarantee, such Statutory Guarantee shall not be excluded. However the Company's liability for any breach of such Statutory Guarantee shall, if permitted by that legislation, be limited at the Company's option to the replacement of the goods or the supply of equivalent goods, or the payment of the cost of replacing the goods or of acquiring equivalent goods.

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