



The miracles of science®

DuPont™ Gulliver® herbicide

Technical Information

Active Constituent:
500 g/kg AZIMSULFURON

Pack Sizes:
500 g

GROUP	B	HERBICIDE
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READ SAFETY DIRECTIONS BEFORE OPENING OR USING

For the control of certain Aquatic broadleaf weeds, and suppression of Barnyard grass in rice as per Directions for Use

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use. 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. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). 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. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet that can be obtained from <http://www.cropprotection.dupont.com.au>

GENERAL INSTRUCTIONS

DuPont™ Gulliver® herbicide is a dry flowable herbicide used for early post emergence control of certain aquatic broadleaf and sedge weeds in rice, and suppression of Barnyard grass. Application of Gulliver® herbicide should target small actively growing weeds. **Subsequent weed germinations will not be controlled.**

CROP SAFETY

DO NOT apply to crops that are stressed by any cause (such as severe weather conditions, excessive water salinity, soil acidity or alkalinity, poor nutrient status, disease or insect damage) as crop injury may result. When treatment is followed by severe stress, crop yellowing or growth retardation may occur. Crops normally recover without loss in yield.

WATER MANAGEMENT

Proper water management is essential for maximum weed control with Gulliver® herbicide. Before herbicide application, ensure that water levels are lowered in the bays and at least three-quarters of the weed growth exposed (on the low side of the bay) enabling direct foliar contact by the spray. Water depth should be no more than 1 - 2 cm deep (on the low side of the bay), or at least the soil should be kept saturated. **DO NOT** allow the soil to dry out. Weeds covered by water may not be controlled. For ground application, the presence of water can result in a "wash" from the vehicle that will reduce efficacy.

Commence raising water levels 12 - 24 hours following spraying. Reach permanent water levels within 2 days. If this can't be achieved or further germinations of Barnyard grass are expected, apply a Molinate® treatment.

Water from treated paddys must be kept in the rice paddy after application.

DO NOT drain water from Gulliver® treated paddys into regional drains, or local waterways or systems for 28 days, or for the period set by the local irrigation Authority and/or State governmental Agency, whichever is the greater.

RESISTANT WEEDS WARNING

GROUP	B	HERBICIDE
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DuPont™ Gulliver® herbicide is a member of the sulfonylurea group of herbicides. Gulliver® has the ALS inhibitor mode of action. For weed resistance management Gulliver® is a Group B herbicide, and should always be mixed with MCPA (250 g/L sodium & potassium salt) a Group I herbicide.

Some naturally occurring weed biotypes resistant to one or both of the modes of action of Gulliver® herbicide, MCPA or other ALS inhibitor and disruptors-of-plant-cell-growth 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 either Gulliver® herbicide or MCPA, and other Group B and Group I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, DuPont accepts no liability for any losses that may result from the failure of Gulliver® herbicide or MCPA to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultants, local Department of Agriculture or Primary Industries, or local DuPont representative.

SPRAY PREPARATION

DuPont™ Gulliver® herbicide is a dry flowable formulation to be mixed with water and applied as a foliar spray. Partially fill the tank with water. Measure the amount of Gulliver® required for the area to be sprayed. Add the correct amount of Gulliver® to the spray tank with the agitation system engaged. Top up to the correct volume of water. **THE MATERIAL MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION.**

DuPont™ Gulliver® must be in suspension before adding MCPA 250, other companion herbicides or non-ionic surfactant.

SURFACTANT/WETTING AGENT

Always add a non-ionic surfactant (1,000 gai/L) at 100 mL/100 L of final spray volume (0.1% volume/volume).

COMPATIBILITY

DuPont™ Gulliver® herbicide is compatible with the herbicide, Londax®.

APPLICATION INSTRUCTIONS

Avoid spraying in still conditions and in winds likely to cause drift onto adjacent sensitive crops. Turn off application equipment whilst passing over irrigation channels, creeks and dams.

DO NOT apply when a temperature inversion is likely to occur.

Ground Spraying: Use a boom properly calibrated to a constant speed and rate of delivery to ensure thorough coverage and a uniform spray pattern. Avoid overlapping and shut off spray booms while starting, turning, slowing or stopping as injury to crop may result. Apply a minimum of 120 L water /ha.

Aerial Spraying: Apply in a minimum of 40 L water /ha using a medium spray quality (VMD droplet size of 250 - 350 µm. Use of Micronaire* equipment is **not recommended** due to greater drift potential.

Sprayer Cleanup

To avoid subsequent injury to crops immediately after spraying thoroughly remove all traces of Gulliver® herbicide from mixing and spray equipment as follows:

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through filters, boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water adding 1 L of household ammonia (contains 3% ammonia) for each 100 litres of tank volume. Agitate, and then flush the filters, boom and hoses with the cleansing solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes

with agitation engaged. Again flush the filters, boom and hoses and drain tank completely.

4. Filters, nozzles and screens should be removed and cleaned separately with ammonia solution at the same concentration as used for the sprayer.
5. Rinse the tank with clean water and flush through the filters, boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
6. **DO NOT** spray the tank rinsate onto sensitive crops or land intended for cropping with sensitive crops.

NOTE: If not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

PRECAUTION

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

PROTECTION OF CROP, NATIVE AND OTHER NON-TARGET PLANTS

Injury to or loss of desirable trees or vegetation may result from failure to observe the following.

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

DO NOT apply unless there is a downwind buffer distance (200 m by air, or 20 m by ground) between the treated area and sensitive crops, native and other non-target vegetation. As DuPont™ Gulliver® herbicide is applied in combination with MCPA, avoid spray drift onto susceptible crops such as cotton, tobacco, tomatoes, vegetables, vines, lucerne, legume crops/pastures, oil seed crops, lupins, fruit trees, ornamentals and trees (such as Kurrajong and Belah).

DO NOT apply irrigation tail waters to crops other than rice.

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 sow Gulliver® treated paddies to any other crop for seven (7) months following Gulliver® application, as crop injury may result.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

HIGHLY TOXIC TO ALGAE AND AQUATIC PLANTS

DO NOT apply unless there is a 50 m downwind buffer distance between the treated area and nearby ponds, streams, lakes, rivers or waterways.

DO NOT contaminate any off-target body of water (e.g. ponds, streams, lakes, rivers or waterways) by spraying, spray drift, cleaning of equipment or disposal of waste (including used containers).

DO NOT drain rice field water into regional drains for 28 days, or for the period set by the local irrigation Authority and/or State governmental Agency, whichever is the greater.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight. Store in a locked room or place away from children, animals, food, foodstuffs, seed and fertilisers.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemical 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.

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

NOTICE TO BUYER

To the extent permitted by law all conditions and warranties and statutory or other rights of action which buyer or 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 or 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 therefore.

APVMA Approval Number: 56017/0806

DIRECTIONS FOR USE

RESTRAINTS

NSW and Vic Only

RESTRAINTS

DO NOT apply to crops under stress (Refer to Crop Safety Section for details).

DO NOT apply if rain is likely within 6 hours.

DO NOT use on drill sown rice (combine seeding or sod seeding).

DO NOT apply directly into floodwater, as in the SCWIIRT (Soluble Chemical in Water Injection Into Rice Technique) or the aerial Bickley boom techniques. Apply only as a foliar spray.

DO NOT store DuPont™ Gulliver® herbicide suspensions for more than 2 days.

DO NOT store tank mixes of Gulliver®.

CROP	WEEDS CONTROLLED	WEED STAGE	RATE/ha	CRITICAL COMMENTS
Rice (4 to 5 leaf up to 4 stems or shoots)	Barnyard grass (<i>Echinochloa</i> spp.) – suppression only	4 leaf to 4 stems or shoots	40 g +	For population and resistance management, always apply an alternate mode of action grass herbicide as a pre or at sowing treatment.
	Alisma (seedlings) (<i>Alisma lanceolata</i>)	4 to 6 leaves	1.6 L - 2.7 L MCPA (250 g/L sodium & potassium salt)	Always mix with MCPA (250 g/L sodium and potassium salt) and add a non-ionic surfactant (see USE OF SURFACTANT/ WETTING AGENT section).
	Arrowhead (<i>Sagittaria montevidensis</i>)	4 to 8 leaves	(such as Nufarm MCPA 250 Selective Herbicide)	For rice, use 1.6 L MCPA 250 at 4 to 5 leaf stage, and 2.7 L MCPA 250 at 1 to 3 tillers. If resistance to Group B herbicides is suspected use 2.7 L MCPA 250 on tillered rice.
	Dirty dora (<i>Cyperus difformis</i>)	3 to 6 leaves	+	Foliar apply to crop and weeds where water has been lowered to expose the weed foliage to the spray. Important see WATER MANAGEMENT section for managing water levels before and after treatment.
	Spikerush (<i>Eleocharis acuta</i>)		non-ionic surfactant	Observe local laws and regulations relating to water management in rice growing areas.
	Starfruit (<i>Damasonium minus</i>)	4 leaf to bolting		
	Water plantain (seedlings) (<i>Alisma plantago-aquatica</i>)	4 to 6 leaves		

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

WITHHOLDING PERIODS

RICE HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING/STOCK FOOD: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 2 WEEKS AFTER APPLICATION.

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