

Product Name: GATOR H2O HERBICIDE
APVMA Approval No: 69635/112342



Label Name:	GATOR H2O HERBICIDE
Signal Headings:	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 240 g/L CARFENTRAZONE-ETHYL SOLVENT: 261 g/L LIQUID HYDROCARBON
Mode of Action:	GROUP G HERBICIDE
Statement of Claims:	For the control of certain aquatic weeds in rice as per Directions for Use Table.
Net Contents:	4 L - 1000 L
Restrains:	RESTRAINTS: DO NOT tank mix GATOR H2O with crop oil concentrates or blended oil/surfactant adjuvants. DO NOT apply GATOR H2O to the long grain rice varieties Kyeema and Doongara.
Directions for Use:	
Other Limitations:	DO NOT DRAIN RICE WATER INTO REGIONAL DRAINS, WITHIN THE WITHHOLDING PERIOD AFTER GATOR H2O APPLICATION AS DEFINED BY THE LOCAL IRRIGATION AUTHORITY AND/OR THE NSW ENVIRONMENTAL PROTECTION AUTHORITY.
Withholding Periods:	WITHHOLDING PERIODS: RICE: HARVEST: NOT REQUIRED WHEN USED AS DIRECTED GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 MONTHS AFTER

	APPLICATION.
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Trade Advice:	
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General Instructions:	
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Resistance Warning:	<p>GATOR H2O Herbicide is a member of the Aryl triazolinone group of herbicides. Its mode of action is through a process of membrane disruption, which is initiated by the inhibition of the enzyme protoporphyrinogen oxidase. This inhibition interferes with the chlorophyll biosynthetic pathway. For weed resistance management GATOR H2O is a Group G herbicide.</p> <p>Some naturally occurring weed biotypes resistant to GATOR H2O and other herbicides that inhibit the enzyme protoporphyrinogen oxidase may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the population if the herbicides are used repeatedly. These resistant weeds will not be controlled by GATOR H2O or other herbicides that inhibit the enzyme protoporphyrinogen oxidase. Since the occurrence of resistant weeds is difficult to detect prior to use, FMC Australasia Pty Ltd accepts no liability for any losses that may result from the failure of GATOR H2O or other herbicides that inhibit the enzyme protoporphyrinogen oxidase.</p> <p>In rice when GATOR H2O is used alone a follow-up application of MCPA is recommended to provide a secondary mode of action.</p>
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Precautions:	<p>RE-ENTRY Do not allow entry into treated areas for 12 hours. When prior entry is necessary, wear impervious footwear and chemical resistant gloves. Clothing must be laundered after each day's use.</p>
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS Do not apply under weather conditions, or from spray equipment, which may cause spray drift onto nearby susceptible plants, adjacent crops, or pastures, or onto wetlands, waterbodies or watercourses.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS, AND ENVIRONMENT Highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or waterways with GATOR H2O or used container.</p>
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Storage and Disposal:	<p>STORAGE AND DISPOSAL Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.</p> <p>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 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.</p>
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	<p>Returnable/refillable containers: Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage</p> <p>Spillage - In case of spillage, confine spilled product with material such as sand or clay. Dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. DO NOT allow spilled product to enter sewers, drains, creeks or any other waterways. Keep out animals and unprotected persons. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.</p>
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Safety Directions:	<p>SAFETY DIRECTIONS</p> <p>May irritate the nose and throat. May irritate the eyes and skin. Avoid contact with eyes and skin. Avoid inhaling vapour. When opening the container, mixing, loading and preparing spray and using the product 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</p>
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First Aid Instructions:	<p>FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

CROP	TARGET WEEDS	Rate mL/ha		WEED STAGE	CRITICAL COMMENTS
		GATOR H ₂ O	GATOR H ₂ O + Londax DF		
Rice	Arrowhead <i>Sagittaria montividentis</i>	420	630 + 50	Up to 6 leaf	<p>Apply to permanent flood water by dripper applicator (eg: Bickley Boom /SCWIIRT method) on tractor, 4 wheel agricultural motorbike, or aircraft; or by boom spray application using ground rig. When using GATOR H₂O alone apply at or beyond the 2 leaf rice stage, up to the 4 leaf rice stage.</p> <p>When using GATOR H₂O in tank mix with Londax apply at or beyond the minimum crop stage as stated on the product's label.</p> <p>Lock up bays 1 day prior to application and hold water for at least 5 days after application. Refer to general instruction for application and water management details.</p> <p>To broaden weed control spectrum and to control hard to kill weeds (eg. Starfruit) tank mix GATOR H₂O with Londax DF.</p>
	Dirty Dora <i>Cyperus difformis</i>	630 (Suppression only)	630 + 50	Up to 4 leaf	
	Star fruit* <i>Damasonium minus</i>	-	630 + 50	Up to 4 leaf	
	Water Plantain <i>Alisma plantago-aquatica</i>	630 (Suppression only)	-		

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

GENERAL INSTRUCTIONS

GATOR H₂O® Herbicide is an early post emergence herbicide for the control of certain broadleaf and sedge weeds in rice. GATOR H₂O is a fast acting contact herbicide and controls weeds through a process of membrane disruption. Application of GATOR H₂O should target small actively growing weeds. Subsequent germinations will not be controlled.

SYMPTOMS

In rice when applied to permanent floodwater, GATOR H₂O is rapidly absorbed through the foliage of plants. Within a few days following application, the foliage of susceptible weeds show signs of necrosis and later death. Herbicidal symptoms may appear on the crop in the form of leaf yellowing on submerged leaves and bronzing on exposed leaves. In most cases seedlings usually recover rapidly. Do not apply GATOR H₂O to the long grain rice varieties Kyeema and Doongara.

COMPATIBILITY

GATOR H₂O can be tank mixed with bensulfuron herbicides (eg: FMC Benlax 600, Londax DF*) for broadened aquatic weed control.

GATOR H₂O is also compatible with:

- Magister® herbicide
- Benzofenap (eg: Taipan)
- Molinate (eg: Ordram*).
- Also compatible with insecticides, Dominex Duo and Chlorpyrifos products.

If unsure about tank mixing with other products not mentioned on this label, it is recommended to undertake a *physical* compatibility trial or 'jar test'. Physical compatibility does not however guarantee biological compatibility and should be tested on a small area before applying to large areas. Do not tank mix GATOR H₂O with oil/surfactant blends, as excessive crop injury may occur.

TIMING

Application should be made to permanent flood water to small weeds up to 4 to 6 leaf in size, species dependant. When using GATOR H₂O alone apply at or beyond the 2 leaf rice stage. When using GATOR H₂O in tank mix with Londax, do not apply before the earliest application timing as directed on the product's label. . Earlier application could result in excessive crop injury.

MIXING

Add half the required volume of water in spray tank and start agitation. Add the measured amount of GATOR H₂O next, followed by Londax DF if tank mixing. Add balance of water to tank. Maintain good agitation at all times until spraying is completed.

APPLICATION

GATOR H₂O can be applied to permanent flood water by drip application (SCWIIRT method – i.e. Soluble Chemical Water Injection In Rice Technique) and boom spray application. Apply as a drip application (SCWIIRT method) by tractor, 4 wheel agricultural motorbike or helicopter (maximum 20 m swath width) in a total spray volume of 7 to 10 L/ha. Fixed wing aircraft application by Bickley boom only in a minimum spray volume of 10 L/ha.

Apply by boom spray application by ground rig in a minimum total spray volume of 20 L/ha. Spray equipment should be properly calibrated to ensure correct application. Application using equipment set to produce coarse droplets will increase direct application onto the water surface, will minimise contact with emerged crop and minimise spray drift. Avoid spraying in still conditions, conditions conducive to inversion and in winds likely to cause drift. Turn off spray boom while passing over irrigation channels, creeks and dams.

WATER MANAGEMENT

It is essential to lock up bays 1 day prior to application and hold water for at least 5 days after application.

To optimise weed control and minimise crop injury ensure there is sufficient water to cover the crop at application- ideally 5 to 8 cm on the high side of the bay, based on 6 to 10 cm fall across the rice bay. Normal water levels should be maintained following the 5 day lock up period

Do not drain rice water into regional drains, within the withholding period after GATOR H₂O application as defined by the local irrigation authority and/or the NSW Environmental Protection Authority.

SPRAYER CLEAN OUT

Thoroughly clean all spray equipment using the following procedure when you have finished spraying highly active materials such as carfentrazone-ethyl.

In addition to the following procedure, ensure proper equipment clean-out for any other products mixed with GATOR H₂O as specified on the other product labels.

IMPORTANT:

More complete cleaning can be achieved if the spray equipment is cleaned immediately following each use.

Mix only as much herbicide spray solution as needed at a time.

DO NOT store application equipment for any extended period of time, especially over night, with GATOR H₂O spray solution remaining in the tank, spray lines, spray boom plumbing, spray nozzles or strainers.

Preparation of the Cleaning Solution:

Prepare a spray equipment cleaning solution by mixing an alkaline detergent eg “OMO”* or “SPREE”* at a rate of 100g for every 100L of clean water used.

Upon completion of applying GATOR H₂O and before spraying sensitive crops including **canola, pulses such as faba beans, lentils, other legumes and cotton:**

1. Fill the spray tank with sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles **then fill the spray tank to capacity to ensure contact of the solution with all internal surfaces. Let the cleaning solution soak in tank, pump and spray lines overnight.**
2. Before further use of the sprayer, operate the spray system for 15 minutes, then completely drain the sprayer system. Rinse the tank with clean water and flush through the hoses, spray boom, and spray nozzles.
3. If possible spray a pesticide requiring an oil adjuvant onto cereals as a further means of removing possible residues of GATOR H₂O before spraying sensitive crops.
4. Immediately prior to commencement of spraying a sensitive crop, purge the boom lines by operating the spray system onto a fence line or waste area for sufficient time to remove any solution that has been residing in the spray lines. **This is also recommended for subsequent tank loads or if the sprayer has been left standing for a period of time containing spray solution.**
5. If storing equipment for more than 48 hours, preferred practice is to clean spray equipment as outlined above allowing to soak overnight, drain and flush with fresh water and leave fresh water in the spray tank, hoses, and spray booms until next use. This water must be drained from the spray boom and lines and flushed out with clean water before beginning any application to a sensitive crop.

Properly dispose of all cleaning solution and rinsate safely in accordance with Federal, State, and local regulations and guidelines.

Do not apply sprayer cleaning solutions or rinsate to sensitive crops.

Should small quantities of GATOR H₂O remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to sensitive crops and other vegetation.

The above method is only effective if the cleaning solution comes into contact with every surface or contact point that may contain even minute carfentrazone-ethyl residues.

CROP ROTATION RECOMMENDATIONS

GATOR H₂O Herbicide does not provide residual activity, therefore no crop rotational restrictions apply. However, check the label of any product mixed with Gator H₂O Herbicide, to determine any plant back periods or restrictions on use.