

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Gulf Ag

Halosulfuron 750 Herbicide

Active Constituent: 750 g/kg HALOSULFURON-METHYL

For Selective Post-Emergence control of Nutgrass in Sugarcane, Corn/Maize and Sorghum and for Selective Post-Emergence Control of Nutgrass and Mullumbimby couch in Turf. Also for the Control of Nutgrass in Cotton using Shielded Sprayers.

GROUP	B	HERBICIDE
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APVMA Approval No: 58401/0804

Pack Sizes: 100g, 500g

GENERAL INSTRUCTIONS

Gulf Ag Halosulfuron 750 Herbicide is a dry flowable granule, which disperses in water. Gulf Ag Halosulfuron can be used for selective post-emergence control of Nutgrass in Sugarcane, Corn/Maize and Sorghum and for the selective post-emergence control of Nutgrass and Mullumbimby couch in Turf. May also be used for the control of Nutgrass in Cotton using shielded sprayers. Symptoms of weed control are a gradual yellowing of foliage and seed heads followed by desiccation. Initial symptoms may take 7-10 days to be noticeable, with full effects occurring 4 to 6 weeks after treatment. Gulf Ag Halosulfuron 750 Herbicide should be applied to actively growing weeds when new growth has reached a minimum of 5cm of new leaf growth for Nutgrass or 2cm for Mullumbimby couch. Apply follow-up treatments if sufficient new growth warrants re-treatment. Irrigation or rainfall within two hours of application will reduce control. Drought stress after treatment may also reduce control.

RESISTANT WEEDS WARNING

Gulf Ag Halosulfuron 750 Herbicide is a member of the Sulfonylurea group of herbicides. The product has the inhibitors of acetolactate synthase mode of action. For weed resistance management Gulf Ag Halosulfuron 750 Herbicide is a Group B Herbicide. Some naturally occurring weed biotypes resistant to Gulf Ag Halosulfuron 750 Herbicide and other a Group B 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 Gulf Ag Halosulfuron 750 Herbicide or any other a Group B Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Gulf Ag Pty Ltd accepts no liability for any losses that may result from the failure of Gulf Ag Halosulfuron 750 Herbicide to control resistant weeds.

MIXING

Gulf Ag Halosulfuron 750 Herbicide is a dry flowable granule that disperses in water. Add the measured amount gradually to a partly filled spray tank, while maintaining continuous bypass agitation. Add the surfactant near the end of the filling process to avoid excessive foaming. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the water source. If allowed to stand, ensure that the mixture is thoroughly agitated before re-commencing spraying. Use the mixture within one day.

SPRAYER CLEANUP

Application of products other than Gulf Ag Halosulfuron the sprayer must be cleaned as follows:

1. Drain tank and flush equipment with water for at least 10 minutes, including hoses, filters and booms.
2. Fill the tank with clean water and add chlorine bleach (containing 4% chlorine) at the rate of 300mL per 100L of water. Flush through the boom and agitate for 15 minutes.
3. Repeat step 2.
4. Remove all nozzles and screens and clean thoroughly.
5. To remove all traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and booms.

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertiliser containing ammonia, ammonia nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odour, which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

SURFACTANT ADDITION

Gulf Ag Halosulfuron 750 Herbicide must be applied with a non-ionic surfactant to ensure uptake. Use 200mL/100L of a 600g/L non-ionic surfactant (i.e. Rygel Cropwett 600). For handgun or knapsack application, add surfactant at 20mL/10L of water.

COMPATIBILITY

Gulf Ag Halosulfuron 750 Herbicide is compatible with glyphosate, diclofop-methyl, dicamba/MCPA and bromoxynil/MCA mixtures and amine formulations of 2,4-D.

Read and follow all label directions, restraints, plantback periods, withholding periods, regional use restrictions and safety directions for tank mix products. Tank mixing with paraquat or ametryn may result in reduced weed control.

Organophosphate insecticides should not be tank mixed or applied 7 days prior or 3 days after application of Gulf Ag Halosulfuron, as severe crop injury may result.

FOLLOWING CROPS

The following crops may be planted at specific time intervals following application of registered rates of Gulf Ag Halosulfuron in approved situations. Use the time interval listed below to determine the required time interval before planting.

Crop	Plantback Interval after the last application of Gulf Ag Halosulfuron
Corn/Maize, Sorghum, Sugarcane	2 months
Wheat	3 months
Cotton	4 months
All other crops (except sugarbeet)	24 months
Sugarbeet	36 months

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Avoid spraying of non-target vegetation. In turf, do not use clippings from treated areas for mulching around vegetables or fruit trees. 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. After spraying the first flush irrigation tailwater or stormwater run-off from land treated with Gulf Ag Halosulfuron should be prevented from entering waterways. Where farms do not have capacity to retain run-off, DO NOT irrigate to the point of run-off for at least 6 days after application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEAN AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Do not feed grass clippings from treated areas to poultry or other livestock or allow grazing of treated turf. Keep people and pets off treated areas until the spray solution has dried. Gulf Ag Halosulfuron is very highly toxic to duckweed.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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 not 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

Harmful if swallowed. Dust will irritate the eyes. Avoid contact with eyes and skin. Wash hands after use.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) that can be obtained from the supplier.

CONDITIONS OF SALE

The use of Gulf Ag Halosulfuron 750 Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Gulf Ag 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 Gulf Ag 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

SORGHUM (NSW and QLD ONLY)

Situation	Weeds Controlled	Rate/ha	Critical Comments
Sorghum	Nutgrass	65 - 130 g	<p>Use the higher rate for dense infestations or for maximum control where a single application is intended.</p> <p>Apply using a boom spray with flat fan nozzles or floodjets to apply at least 80 L/ha of water as a broadcast, or directed treatment. Time treatment to ensure maximum emergence of Nutgrass when majority of plants are 3-4 leaf stage. Apply post-emergence to crop at any time up to a crop height of 60cm.</p> <p>Apply as a directed spray if using rates greater than 65 g/ha. Some transient yellowing and growth reduction of crop may occur at higher rate.</p>

COTTON (NSW and QLD ONLY)

Situation	Weeds Controlled	Rate/ha	Critical Comments
Shielded sprayer application in irrigated cotton only	Nutgrass	65 - 130 g	<p>Use the higher rate for dense infestations or for maximum control where a single application is intended.</p> <p>Apply to Nutgrass growing between cotton rows using a shielded sprayer. Apply in crops at least 20m high but before first flower. Spray or drift, which contacts any part of the cotton plant, may cause severe injury. Follow-up treatments may be required to control plants emerging from dormant tubers.</p> <p>Cultivation should be delayed for at least 2 days following treatment. The first irrigation after spraying should be delayed for as long as possible to minimise herbicide runoff.</p>
Shielded or directed handgun or knapsack application		1.3 g/100 sq. m	<p>For spot treatment using shielded or directed handguns or knapsack sprayers. DO NOT apply in crops less than 20cm high. Spray or spray drift, which contacts any part of the cotton plant, may cause severe injury.</p> <p>Apply 1.3g per 100 square metres. For example, mix 1.3 g in 10L of water and apply the 10L of the mix per 100 square metres.</p>

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

WITHHOLDING PERIODS**HARVEST**

TURF: DO NOT USE CLIPPINGS FROM TREATED AREAS FOR MULCHING AROUND VEGETABLES OR FRUIT TREES. DO NOT FEED GRASS CLIPPINGS FROM TREATED AREAS TO POULTRY OR OTHER LIVESTOCK.

ALL OTHER CROPS: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING

SORGHUM: DO NOT GRAZE LIVESTOCK OR CUT FOR FODDER OR FORAGE FOR FOUR WEEKS AFTER TREATMENT.

TURF: DO NOT ALLOW GRAZING OF TREATMENT TURF.

ALL OTHER CROPS: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.