

CAUTION

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



ACTIVE CONSTITUENT: 750 g/kg HALOSULFURON-METHYL

GROUP B HERBICIDE

For selective post-emergence control of Nutgrass in Sugarcane, Maize and Sorghum and for the selective post-emergence control of Nutgrass and Mullumbimby couch in Turf. Also for the control of Nutgrass in Cotton using shielded sprayers.

Monsanto Australia Limited ACN 006 725 560
600 St Kilda Road Melbourne Victoria 3004
NRA Approval No. 45983 / 0799 Sempra 600 / 0799 / 1.2

600g NET



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Also for the control of Nutgrass in Cotton using shielded sprayers.

SUGAR CANE (NSW and Qld ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Plant and ratoon Sugarcane	Nutgrass	65-130 g/ha 1.3 g/ 100 sq m	Use the higher rate for dense infestations or for maximum control where a single application is intended. Follow-up treatments may be required to control plants emerging from dormant tubers. Apply using a boom spray with flat-fan nozzles or floodjets to apply at least 80 L/ha as a broadcast or directed treatment in Sugarcane. Avoid streaking, skips or overlaps during application. Cultivation should be delayed for at least 2 days following treatment. For spot treatment using hand guns or knapsack sprayers, apply 1.3 g Sempra per 100 square metres. For example, mix 1.3 g per 10 L of water and apply 10 L of the mix per 100 square metres.

MAIZE (All States, ACT, NT)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Maize	Nutgrass	65-130 g/ha	Use the higher rate for dense infestations or for maximum control where a single application is intended. Apply post emergence to crop at any time up to a crop height of 60 cm. Apply using a boom spray with flat-fan nozzles or floodjets to apply at least 80 L/ha as a broadcast or directed treatment. Time treatments to ensure maximum emergence of Nutgrass when majority of plants are 3-4 leaf stage. Some transient yellowing and growth reduction of crop may occur at higher rates.

SORGHUM (NSW and Qld ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Sorghum	Nutgrass	65-130 g/ha	Use the higher rate for dense infestations or for maximum control where a single application is intended. Apply using a boom spray with flat fan nozzles or floodjets to apply at least 80 L/ha as a broadcast or directed treatment. Time treatments 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 60 cm. Do not apply more than 200 g/ha per season. Apply as directed spray if using rates greater than 65 g/ha. Some transient yellowing and growth reduction of crop may occur at higher rates.

COTTON (NSW and Qld ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Shielded sprayer application in irrigated Cotton only	Nutgrass	65-130 g/ha	Use the higher rate for dense infestations or for maximum control where a single application is intended. Apply Sempra to Nutgrass growing between Cotton rows using a shielded sprayer. Apply in crops at least 20cm high but before first flower. Spray or spray 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. 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 run-off.
Shielded or directed hand-gun or knapsack application		1.3 g/100 sq m	For spot treatment using shielded or directed hand-guns 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. Apply 1.3 g Sempra per 100 square metres. For example, mix 1.3 g per 10 L of water and apply 10 L of the mix per 100 square metres.

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

WITHHOLDING PERIOD**HARVEST**

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

GRAZING

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

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

General Instructions

Semprea is a dry flowable granule which disperses in water. Sempra can be used for selective post-emergence control of Nutgrass in Sugarcane and for the selective post-emergence control of Nutgrass and Mullumbimby couch in turf. Sempra 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. Sempra should be applied to actively growing weeds when new growth has reached a minimum of 5 cm of new leaf growth for Nutgrass or 2 cm 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

Semprea Herbicide by Monsanto inhibits acetolactate synthase and therefore, is a member of the Sulfonylurea group of herbicides. When considering resistant weed management, Sempra Herbicide is a group B herbicide. Some naturally occurring weed biotypes resistant to Sempra Herbicide by Monsanto and other inhibitors of acetolactate synthase may exist through normal genetic variability in any weed population. Resistant weeds can eventually dominate the weed population if group B herbicides are used repeatedly and as a consequence, resistant weeds will not be controlled by Sempra Herbicide or any other herbicides that inhibit acetolactate synthase. Since development of resistant weeds is difficult to detect prior to herbicide use, Monsanto accepts no liability for any losses that may result from the failure of Sempra Herbicide to control resistant weeds.

Mixing

Semprea is a dry flowable granule which disperses in water. Add the measured amount gradually to a part-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

Before application of products other than Sempra, the sprayer must be cleaned out as follows:

- 1 Drain the tank and flush equipment with water for a minimum of 10 minutes, including hoses, filters and boom.
- 2 Fill the tank with clean water and add chlorine bleach (containing 4% chlorine) at the rate of 300mL/100L of water. Flush through the boom and agitate for 15 minutes.

- 3 Repeat step 2 above.
- 4 Remove all nozzles and screens and clean thoroughly.
- 5 To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

Caution: Do not use chlorine bleach with ammonia. All traces of liquid fertiliser containing ammonia, ammonium 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

Sempre must be applied with a non-ionic surfactant to ensure uptake. Use 200mL/100L of a 600 g/L non-ionic surfactant or equivalent. For hand-gun or knapsack application, add surfactant at 20mL/10L of water.

Compatibility

Sempre is compatible with Roundup®, Roundup® CT, Roundup® CT Xtra and Roundup® Dry, Hoegrass*, dicamba/MCPA and bromoxynil/MCPA mixtures and amine formulations of 2,4-D. Read and follow all label directions, restraints, plant-back periods, with-holding periods, regional use restrictions and safety directions for the tank mix products. Tank mixing with paraquat or ametryn may result in reduced weed control.

Following Crops

Do not plant crops other than Sugarcane or Cotton for 24 months after the last application of Sempra.

Protection of Crop, 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 SEMPRA should be prevented from entering waterways. Where farms do not have the capacity to retain run-off, DO NOT irrigate to the point of run-off for at least 6 days after application.

Protection of Livestock, Wildlife, Fish, Crustacea, the Environment and Others

Do not contaminate dams, rivers, or streams with the product or used container. 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. Sempra 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 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.

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. Ph: 13 11 26.

ONLY IN EMERGENCY CALL 1 800 033 111 ALL HOURS

Refer to Monsanto Safety Data Sheet No 238



**FOR PRODUCT INFORMATION CALL
TOLL-FREE 1 800 639 899**

Limit of Warranty and Liability

Monsanto Australia Limited ("Monsanto") warrants that this product conforms to the chemical description on the label. As the use of product sold is beyond the control of Monsanto, no responsibility whatsoever for any consequences is accepted in respect of this product, save those non-excludable conditions implied by any State and Federal legislation or law of a Territory. Not for re-packaging or re-formulation. No licence under any non-Australian patent is granted or implied by purchase of this product.

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