Nufarm

CAUTION

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

Sempra®

Herbicide

ACTIVE CONSTITUENT: 750 g/kg HALOSULFURON-METHYL

GROUP B HERBICIDE

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

The bottle must not be sold separately. Do not destroy box while product still remains.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

® Sempra is a registered trademark of Nissan Chemical Industries used under licence by Nufarm Australia Limited

nufarm.com.au

Nufarm Australia Limited
ACN 004 377 780
103-105 Pipe Road
Laverton North Victoria 3026
Tel: (03) 9282 1000
Fax: (03) 9282 1001

BOX LABEL AND BOTTLE LABEL
NET CONTENTS: 25g
NET CONTENTS: 50g
NET CONTENTS: 100g
NET CONTENTS: 500g
NET CONTENTS: 600g
NET CONTENTS: 1kg

APVMA Approval No 56620/107069

STORAGE AND DISPOSAL
Store in the closed, original container in a dry, cool, well-ventilated area out of 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 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.

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 Australia 13 11 26.

MATERIAL SAFETY DATA SHEET
For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or from the Nufarm website – www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE
"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

BN / DOM / Barcode / /

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Before using product, read directions on outer pack. Sale of this bottle except in outer pack is illegal.

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READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

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DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply more than 200g/ha per season for Turf, Sugarcane, Corn/Maize, Sorghum, Cotton and Pasture
DO NOT apply after the onset of frosts.
DO NOT apply this product through any type of irrigation system.
DO NOT apply if heavy rain is expected within at least 48 hours.

TURF (ALL STATES, ACT, NT)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Established Turf as named: Bent grass Buffalo grass Carpet grass Couch Couch hybrid Durban grass Kikuyu grass Perennial ryegrass Queensland blue couch Tall fescue	Mullumbimby couch Nutgrass	65-130g/ha	Use the higher rate for dense infestations. Apply to actively growing weeds when new leaf growth has reached a minimum of 5cm on Nutgrass or 2cm on Mullumbimby couch. Apply using a boom spray with flat fan nozzles to apply at least 80L/ha of water. ALWAYS Add Banjo® or Supercharge® Elite at 1L/100L. Apply follow-up treatments if sufficient new growth warrants re-treatment. For optimum control, mowing should be delayed for 2 days following treatment. Use of this product on newly seeded, sodded, or sprigged turf grass that is not well established may result in damage and/or delay establishment. In addition, application to turf weakened by weather conditions or by physical damage due to intensive use or cultural practices such as scarification, coring, aeration or top-dressing, may result in damage and/or delayed recovery.
		1.3g/100m^2	For spot treatment using handgun or knapsack sprayers, apply 1.3g Sempra per 100m^2. For example, mix 1.3g Sempra in 10L water, add 100mL of Banjo or Supercharge Elite, and apply 10L of the mix per 100m^2.

SUGARCANE (NSW AND QLD ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Plant and ratoon Sugarcane	Nutgrass	65-130g/ha	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 flood jets to apply at least 80L/ha as a broadcast, or directed treatment in Sugarcane. ALWAYS add Banjo or Supercharge Elite at 1L/100L. Avoid streaking, skips or overlaps during application. Cultivation should be delayed for at least 2 days following treatment
		1.3g/100m^2	For spot treatment using handgun or knapsack sprayers, apply 1.3g Sempra per 100m^2. For example, mix 1.3g Sempra in 10L water, add 100mL of Banjo or Supercharge Elite and apply 10L of the mix per 100m^2.

CORN/MAIZE (*ZEA MAYS*, ALL STATES, ACT, NT)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Maize/Corn	Nutgrass	65-130g/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 60cm. Apply using a boom spray with flat fan nozzles or flood jets to apply at least 80L/ha as a broadcast or directed treatment. ALWAYS add Banjo or Supercharge Elite at 1L/100L. Time treatment 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 rate. DO NOT apply Sempra to sweetcorn or popcorn. DO NOT apply Sempra herbicide to corn/maize if the crop is under severe stress due to drought, water saturated soil, low fertility (especially low nitrogen levels) or other poor growing conditions.

SORGHUM (NSW AND QLD ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Sorghum	Nutgrass	65-130g/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 flood jets to apply at least 80L/ha as a broadcast or directed treatment. ALWAYS add Banjo or Supercharge Elite at 1L/100L. 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. DO NOT apply more than 200g/ha per season. Apply as a directed spray if using rates greater than 65g/ha. Some transient yellowing and growth reduction of crop may occur at higher rate.

COTTON (NSW AND QLD ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Shielded sprayer application in irrigated cotton only.	Nutgrass	65-130g/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. ALWAYS add Banjo or Supercharge Elite at 1L/100L. 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 runoff.
Shielded or directed handgun or knapsack application		1.3g/100m^2	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. Apply 1.3g Sempra per 100m^2. For example, mix 1.3g Sempra in 10L water, add 100mL of Banjo or Supercharge Elite and apply 10L of the mix per 100m^2.

PASTURE (NTH QLD ONLY)

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Established Pasture as named: *Brachiaria decumbens* *Brachiaria humidicola* *Setaria spp* *Pangola spp*	Navua sedge (*Cyperus aromaticus)*	2 applications of 65-100g/ha	Remove grazing cattle at least 2 weeks prior to application to allow Navua sedge to regrow. ONLY apply to actively growing weeds. Use the higher rate of Sempra for dense infestations. ALWAYS add Banjo or Supercharge Elite at 1L/100L. DO NOT apply after seed maturation. Apply using a boom spray with flat fan nozzles OR with Boomless nozzles using a double overlap spray pattern in at least 150L/ha of water. Ensure spray is delivered using a Coarse spray quality. Follow up treatments must be applied to control new germinations 8-12 weeks later. For optimum control, mowing, slashing & discing should be avoided during the treatment period. DO NOT Graze for 10 weeks following application. Pasture can be briefly grazed before a follow-up treatment no more than 12 weeks after the first treatment. In addition, application to pasture weakened by weather conditions or by physical damage due to intensive use or cultural practices such as scarification, coring, aeration or top-dressing, may result in damage and/or delayed recovery.
		1g/100m^2	For spot treatment using knapsack sprayers, apply 1.0g per 100m^2. For example, mix 1.0g Sempra in 10L water, add 100mL Banjo or Supercharge Elite and apply 10L of the mix per 100m^2. Retreat 8-12 weeks later if new germinations warrant treatment.
		50g/5000m^2	For spot treatment using tractor mounted handgun sprayers, apply 50g per 5000m^2. For example, mix 50g Sempra in 100L water, add 1L/100L Banjo or Supercharge Elite, and apply 100L of the mix per 5000m^2 Retreat 8-12 weeks later if new germinations warrant treatment.

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

WITHHOLDING PERIOD

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 TREATED TURF.
Pasture: DO NOT GRAZE LIVESTOCK OR CUT FOR FODDER OR FORAGE FOR TEN WEEKS AFTER TREATMENT
ALL OTHER CROPS: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Sempra is a dry flowable granule which disperses in water. Sempra 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 and for the selective post-emergence control of Navua sedge in pasture. Sempra may also be used for the control of Nutgrass in Cotton using shielded sprayers. Banjo or Supercharge Elite should always be added to Sempra for maximum control.

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 5cm of new leaf growth for Nutgrass and Navua sedge, ensuring the top of the plant is clear for good spray contact or 2cm for Mullumbimby couch. Apply follow-up treatments if sufficient new growth warrants re-treatment. For Navua sedge follow-up treatments must be applied 8-12 weeks after the first treatment for good control. Irrigation or rainfall within two hours of application will reduce control. Drought stress after treatment may also reduce control.

RESISTANT WEEDS WARNING

GROUP B HERBICIDE

Sempra Herbicide 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 and other Group B herbicides 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 Group B herbicides. Since development of resistant weeds is difficult to detect prior to herbicide use, Nufarm accepts no liability for any losses that may result from the failure of Sempra Herbicide to control resistant weeds.

MIXING

Sempra is a dry flowable granule that 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 booms.
2. Fill the tank with clean water and add chlorine bleach (contains 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 booms.

Caution: DO NOT use chlorine bleach with ammonia. All traces of liquid fertilizer 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.

ADJUVANT ADDITION

Sempra must be applied with Banjo or Supercharge Elite at 1L/100L to ensure uptake. For hand-gun or knapsack application, add Banjo or Supercharge Elite at 100mL/10Lof water.

COMPATIBILITY

Sempra is compatible with weedmaster® DUO®, weedmaster® DST®, weedmaster® ARGO®, and Hoegrass*, Kamba® M (dicamba/MCPA mixtures), Bromicide® MA (bromoxynil/MCPA mixtures), Banjo®, Supercharge® Elite, Chemwet 1000 and Amicide® Advance 700 (amine formulations of 2,4-D). Read and follow all label directions, restraints, plant-back periods, withholding periods, regional use restrictions and safety directions for the 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 Sempra, as severe crop injury may result.

FOLLOWING CROPS

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

Crop	Plant back interval after the last application of Sempra
Corn/Maize, Sorghum, Sugarcane	2 months
Wheat, Pasture (*Brachiaria decumbens* *Brachiaria humidicola* *Setaria spp* *Pangola spp.)*	3 months
Cotton	4 months
All other crops (except sugarbeet)	24 months
Sugarbeet	36 months

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 or cropping lands. After spraying, the first flush irrigation tail water 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 dry, cool, well-ventilated area out of 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
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