

GENERAL INSTRUCTIONS

Sedgehammer Herbicide is a dry flowable granule, which disperses in water. Sedgehammer 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. Sedgehammer 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

Sedgehammer 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 Sedgehammer Herbicide is a Group B Herbicide. Some naturally occurring weed biotypes resistant to Sedgehammer 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 Sedgehammer Herbicide or any other a Group B Herbicides.

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

MIXING

Sedgehammer 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

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

1. Drain the tank and flush with clean water for a minimum of 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/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 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

Sedgehammer Herbicide must be applied with a non-ionic surfactant to ensure uptake. Use a 1000g/L non-ionic surfactant at 120mL per 100L.

For handgun or knapsack application, add surfactant at 12mL/10L of water.

COMPATIBILITY

Sedgehammer Herbicide is compatible with glyphosate, dicamba/MCPA and bromoxynil/MCPA 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 Sedgehammer, as severe crop injury may result.

FOLLOWING CROPS

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

Crops	Plant back interval after the last application of Sedgehammer
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 tail-water or storm-water run-off from land treated with Sedgehammer 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. Sedgehammer 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.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which is available from the supplier.

CONDITIONS OF SALE

The use of Sedgehammer Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Amgrow 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 Amgrow Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **Harmful if swallowed. Causes skin irritation. May cause respiratory irritation.** Wash contacted areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice. If eye irritation persists: Get medical advice. In case of fire, use carbon dioxide, dry chemical, foam, water fog.

APVMA Approval No. 64928/52695

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

Sedgehammer Herbicide

ACTIVE CONSTITUENT: 750 g/kg HALOSULFURON-METHYL

GROUP **B** HERBICIDE

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.

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING

The Amgrow logo features a stylized green leaf icon to the left of the brand name 'Amgrow' in a bold, white, sans-serif font with a black outline.

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DIRECTIONS FOR USE:

RESTRAINTS: DO NOT apply more than 200g/ha per season.
 DO NOT use 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/ha	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 / hectare (1.3g / 100 square meters)	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. 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 turfgrass 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. For spot treatment using handgun or knapsack sprayers, apply 1.3g per 100 square metres. For example, mix 1.3g in 10L of water and apply the 10L of the mix per 100 square metres.

SUGARCANE (NSW and QLD ONLY)

Situation	Weeds Controlled	Rate/ha	Critical Comments
Plant and Ratoon Sugarcane	Nutgrass	65-130g / hectare (1.3g / 100 square meters)	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 80L/ha of water as a broadcast, or directed treatment in Sugarcane. Avoid streaking, skips or overlaps during application. Cultivation should be delayed for 2 days following treatment. For spot treatment using handgun or knapsack sprayers, apply 1.3g per 100 square metres. For example, mix 1.3g in 10L of water and apply the 10L of the mix per 100 square metres.

CORN/MAIZE (Zea mays) (ALL STATES, ACT, NT)

Situation	Weeds Controlled	Rate/ha	Critical Comments
Maize/Corn	Nutgrass	65-130g / hectare	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 floodjets to apply at least 80L/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. Some transient yellowing and growth reduction of crop may occur at higher rate. DO NOT apply to sweetcorn, popcorn or hybrids. DO NOT apply 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/ha	Critical Comments
Sorghum	Nutgrass	65-130g / hectare	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 80L/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. 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/ha	Critical Comments
Shielded sprayer application in irrigated cotton only	Nutgrass	65-130g / hectare	Use the higher rate for dense infestations or for maximum control where a single application is intended. Apply to Nutgrass growing between cotton rows using a shielded sprayer. Apply in crops at least 20m 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 handgun or knapsack application		0.65-1.3g / 100 square meters	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 per 100 square metres. For example, mix 1.3g in 10L of water and apply the 10L 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 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 TREATED TURF.

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