CAUTION

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

CHEMAG HALO 750 WG HERBICIDE

ACTIVE CONSTITUENT:
750g/kg HALOSUFURON-METHYL

GROUP B HERBICIDE

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

READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No: 58457 / 305

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DIRECTIONS FOR USE

Restraints: DO NOT apply more than 200g/ha per season.
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 1.3g/ 100sq m	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 Halo per 100 square metres. For example, mix 1.3g Halo in 10L of water and apply 10L of the mix per 100 square metres.

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 floodjets to apply at least 80L/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.
		1.3g/ 100sq m	For spot treatment using handgun or knapsack sprayers, apply 1.3g Halo per 100 square metres. For example, mix 1.3g Halo in 10L of water and apply 10L of the mix per 100 square metres.

DIRECTIONS FOR USE continued…

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 floodjets to apply at least 80L/ha 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 Halo to sweetcorn, popcorn or hybrids. Do not apply Halo 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 floodjets to apply at least 80 L/ha 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. Do not apply more than 200g/ha per season. Apply as directed spray if using rates greater than 65g/ha. Some transient yellowing and growth reduction of crop may occur at higher rate.

DIRECTIONS FOR USE continued…

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 Halo 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 sever 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 minimize herbicide runoff.
Shielded or directed handgun or knapsack application		1.3g/ 100sq m	For spot treatment using shielded or directed handgun 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 Halo per 100 square metres. For example, mix 1.3g Halo in 10L of water and apply 10L of the mix per 100 square metres.

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. 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.
		1.3g/ 100sq m	For spot treatment using handgun or knapsack sprayers, apply 1.3g Chemag Halo 750 WG Herbicide per 100 square metres. For example, mix 1.3g Chemag Halo 750 WG Herbicide in 10L of water and apply 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.

DIRECTIONS FOR USE continued…

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 IS 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.

GENERAL INSTRUCTIONS

HALO is a dry flowable granule which disperses in water. Halo 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. HALO 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. Halo should be applied to actively growing weeds when new growth has reached a minimum of 5cm of new leaf 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

Halo 750 WG herbicide is a member of the Sulfonylurea group of herbicides. The product inhibits acetolactate synthase. For weed resistance management, the product is a group B herbicide. Some naturally occurring weed biotypes resistant to Halo Herbicide and other Group B herbicide may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if group B herbicides are used repeatedly. These resistant weeds will not be controlled by Halo Herbicide or other Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to herbicide use, ChemAg accepts no liability for any losses that may result from the failure of Halo 750 WG Herbicide to control resistant weeds.

MIXING

Halo 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 Halo 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.

SURFACTANT ADDITION

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

COMPATIBILITY

Halo is compatible with Glyphosate, Dicamba/MCPA and bromoxynil/MCPA mixtures and 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 Halo, as severe crop injury may result.

FOLLOWING CROPS

The following crops may be planted at specific time

intervals following application of approved rates of Halo 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 Halo
Corn/Maize, Sorghum and Sugarcane	2 months
Wheat	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, cropping lands or pastures. After spraying, the first flush irrigation tailwater or stormwater run-off from land treated with Halo 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, CRUSTACEAN, 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 of other livestock or allow grazing of treated turf. Keep people and pets off treated areas until the spray solution has dried. Halo 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 the spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available bury the container below 500mm in a disposal pit specifically marked

GENERAL INSTRUCTIONS continued…

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 (Phone Australia 131126).

MATERIAL SAFETY DATA SHEET

For further information refer to the materials Safety data Sheet which can be obtained from the supplier

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PLEASE CHECK THIS PROOF THOROUGHLY

All care has been taken to ensure this artwork is correct. Please check carefully for TYPESETTERS ERRORS ONLY as any further alterations will increase your cost. **SIGNED FORM MUST BE RETURNED BEFORE PRINTING CAN COMMENCE.** No responsibility for errors can be accepted after work has been checked and approved for printing.

Job No: **34442**
Order No:
Client: **Imtrade Australia**
Email: **karina.vinci@imtrade.com.au**
Description: **Halo Booklets**
Size (mm): **150w x 120d (each page 75x120)** Colours: **Black**
Date: **29/11/05** Approved ☐ New Proof Required ☐ Proof No: **1**
Signature:_____ Date:_____