

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Sulfos 750 WG

Herbicide

**ACTIVE CONSTITUENT: 750 g/kg SULFOSULFURON**

**GROUP**

**B**

**HERBICIDE**

Selective Herbicide for the control of certain weeds in Wheat and Triticale as specified in the Directions for Use Table

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**NET CONTENTS: 100 g-5 kg**

**DIRECTIONS FOR USE****RESTRAINTS**

**DO NOT** apply more than once per season.

**DO NOT** apply to crops undersown with legumes.

**DO NOT** spray when very dry conditions prevail.

**DO NOT** use on furrow or flood irrigated crops.

**DO NOT** apply to soils with pH over 8.5

Weed control may be reduced if rainfall occurs soon after application.

**Pre-emergent application**

CROPS	WEEDS CONTROLLED/ SUPRESSED	RATE/ha	CRITICAL COMMENTS
Wheat, Triticale (NSW, Vic, Tas, SA, WA only)	Barley Grass*, Brome Grass*, Wild Turnip	25g	Apply to bare soil prior to sowing or at sowing and incorporate by the sowing operation. Application should not be made to ridged or excessively cloddy soil. In conservation tillage situations where weeds and grasses have emerged apply as a tank mixture with the recommended rate of glyphosate herbicides prior to sowing.
	Weeds as above plus the control of Wild Oats	25g plus 1.6L of Triallate 500 EC Herbicide	For best results, follow the Triallate 500 EC Herbicide label directions for incorporation.
	Weeds as above plus: Annual Ryegrass, Canary Grass, Fumitory, Wireweed (Hogweed)	25g plus 800 mL Trifluralin 480 EC Herbicide	For best results, follow the Trifluralin 480 EC Herbicide label directions for incorporation.

\**Suppression only*

**Post-emergent application**

Apply to Wheat and Triticale from early crop emergence to the 5-leaf/early tillering growth stage (Z11-15,22).

**Always use surfactant/wetting agent – Post emergent.**

Always add DC Trate® at 2L/100L (2% volume/volume) of final spray volume.

CROPS	WEEDS CONTROLLED/ SUPRESSED	Stage of Weed Growth	RATE/ha	CRITICAL COMMENTS
Wheat, Triticale (NSW, Vic, Tas, SA, WA only)	Amsinckia, Wild Mustard ( <i>Sinapsis arvensis</i> )*	Apply at the cotyledon to 4-leaf stage	25 g	Optimum results will be obtained if good soil moisture exists at and after application. A follow-up spray with a different herbicide may be necessary to control subsequent germinations.  When treating dense infestations of Silvergrass, use water volumes of at least 70L/ha and small droplets to improve coverage. Sulfos 750 WG will provide good control of Volunteer Field Peas. However, a small proportion of plants may survive and require a follow-up spray with a different herbicide to eliminate the potential for grain contamination.
	Barley Grass*, Silvergrass ( <i>Vulpia bromoides</i> ), Wild Oats	Apply at the 1-4 leaf stage (Z11-14)		
	Brome Grass* ( <i>Bromus diandrus</i> & <i>B. rigidus</i> )	Apply at the 1 to 3 leaf stage (Z11-13)	pH more than 7-20 g pH less than 7-25 g	
	Volunteer Canola (except Canola tolerant to Group B herbicides), Wild Radish, Wild Turnip	Apply at the cotyledon to 4-leaf stage	20 g	
	Volunteer Field Peas	Apply at the 1-3 leaf stage		

\**Suppression only*

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

**WITHHOLDING PERIOD:**

**NOT REQUIRED WHEN USED AS DIRECTED**

## CROP ROTATION GUIDELINES

**Where Sulfos 750 Herbicide is applied at the rate of 20 to 25g/ha:** Wheat and Triticale can be planted the following season without restrictions. For other specified crops, the Sulfos 750 WG treated area may be replanted after the interval indicated in the table below. These recommendations are made on the assumption that Sulfos 750 WG is applied to a Wheat or Triticale crop that reaches maturity in the season of application.

**Plantback period: Vic, NSW, WA, SA, Tas only**

Soil pH (1:5 soil:water suspension method)	Re-plant Interval	Minimum rainfall <sup>1</sup>	Crop
6.5 or less	10 months	300 mm	Canola, Chickpeas, Lentils, Lupins, Oats, Peas, Sub-clover*
	12 months	300 mm	Barley, Faba Beans
6.5 to 8.5	10 months	300 mm	Cereal Rye
	22 months	600 mm	Barley, Canola, Cereal Rye, Chickpeas, Faba Beans, Lentils, Medic*, Oats, Peas, Vetch

<sup>1</sup> Minimum rainfall required between Sulfos 750 WG application and the sowing of the plantback crop.

\* Includes natural re-generation of Sub-clover and Medics.

**DO NOT** apply to soils with a pH (water > 8.5

For all other crops refer to Cheminova Australia Pty Ltd for further advice.

## GENERAL INSTRUCTIONS

Sulfos 750 WG is a selective herbicide absorbed by foliage and roots. It is rapidly translocated and acts by inhibiting acetolactate synthase (ALS), an enzyme necessary for root and shoot growth in sensitive plants. Sulfos 750 WG is a water dispersible granular herbicide for use in Wheat and Triticale. It can be used as a pre-plant, incorporated by sowing, for the control of Wild Turnip, suppression of Barley Grass and Brome Grass, or as a post-emergent for the control of Silvergrass, Wild Radish and Wild Turnip, and suppression of Barley Grass, Brome Grass, Wild Mustard (*Sinapsis arvensis*) and Wild Oats.

**Pre-emergent:** Apply to bare soil prior to sowing or at sowing and incorporate by the sowing operation to give thorough mixing. If applied to dry soil and sowing is to be delayed, incorporate immediately after spraying to prevent loss by wind erosion. For best results apply to moist soil when follow-up rain is likely to occur within 7-10 days. Weeds may emerge and will become stunted and uncompetitive soon after application although final results may not show for some weeks.

**Post-emergent:** Weeds should be young and actively growing. Use the higher rate under heavy weeds pressure and for larger weeds. A follow-up spray with a suitable herbicide may be necessary to control subsequent germinations. Best weed control is obtained when rainfall wets the soil to a depth of 5 to 7.5cm within 7-10 days of application. Weeds will become stunted and uncompetitive soon after application although final results may not show for some weeks.

When treatment is delayed or where weeds are not actively growing due to adverse conditions, for example, dry, waterlogged, frosty or diseased conditions, nutrient deficiency, high insect pressure or previous herbicide treatment, reduced levels of control may result.

Sulfos 750 WG will remain in the soil for a period of time. The persistence of Sulfos 750 WG in the soil is dependent on various environmental conditions e.g. soil pH, soil moisture, soil temperature and organic matter. Crops other than Wheat and Triticale may be very sensitive to low soil concentrations of Sulfos 750 WG, thus prior to using Sulfos 750 WG, careful consideration should be given to crop rotation plants (see Crop Safety and Crop Rotation Guidelines).

## MIXING

Sulfos 750 WG is a water dispersible granular herbicide, which mixes readily with water and is applied as a spray:

1. Partly fill the spray tank with water.
2. Start the agitation.
3. Add the correct amount of Sulfos 750 WG to the spray tank with the agitation system running.
4. Continue agitation while topping up the tank with water and while spraying.
5. In tank mixes Sulfos 750 WG must be in suspension before adding the companion herbicide surfactant.
6. Use the spray mix within 24 hours of preparation.

## APPLICATION

Apply by boom spray with flat fan nozzles. Ensure good spray coverage is obtained. Apply using 40 to 100L of water/ha. Avoid overlapping of boom runs. Use higher water volumes where crop or weed density is high.

**DO NOT** apply by aircraft.

## Spray Cleanup

Where the sprayer is being used to spray Wheat or Triticale crops, rinse the sprayer thoroughly with water. Where the sprayer is being used to spray crops other than Wheat or Triticale:

1. Drain tank and rinse tank and spray boom with clean water for at least 10 minutes.

2. Fill the tank with clean water and add to it 300 mL of household chlorine bleach (containing 4% chlorine) per 100L of water. Rinse hoses and boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle.
3. Repeat step 2 and then rinse thoroughly with clean water to remove all traces of chlorine bleach.
4. Nozzles and filters should be cleaned separately.
5. Dispose of all water used for cleaning.

**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 and lung irritation. **DO NOT** clean equipment in an enclosed area.

#### COMPATIBILITY

Read and follow all label directions, restraints, plant back and withholding periods and safety directions for all tank-mix products. In tank mixes with Sulfos 750 WG must be in suspension before adding the companion product or surfactant.

**Pre-emergent:** Sulfos 750 WG is compatible with triallate 500 EC, glyphosate 450, paraquat 250, diquat 115 g/L + paraquat 135 g/L and trifluralin 480 EC Herbicides.

**Post emergent:** Sulfos 750 WG is compatible as a two way mixture with LVE MCPA (up to 350 mL/ha) and Nimble® or Jester® (up to 750 mL/ha) for treatment of Brome Grass, Wild Oats, Wild Mustard (*Sinapsis arvensis*), Wild Radish and Wild Turnip. Always add spray oil at 2L/100L (2% volume/volume) of final spray volume. Some increased temporary crop yellowing may occur with Sulfos 750 WG is tank mixed with Jester Herbicide

**Incompatible:** The following herbicides and insecticides are **incompatible** with Sulfos 750 WG: tralkoxydim, dicamba, diclofop-methyl, terbutryn, Le-Mat Insecticide and Danadim Insecticide.

#### CROP SAFETY

**DO NOT** use on winter cereals undersown with legume pasture crops e.g. Medics, Clovers, Lucerne. **DO NOT** use on Barley or Oats. Sulfos 750 WG is effective on a range of plants, even at low rates of application. Since many rotational crops are sensitive, growers will need to consider the soil carry-over effects on subsequent crops. Below average rainfall, high levels of applied Sulfos 750 WG (greater than the recommended rates), pH greater than 6.5 and low soil temperatures and low rainfall all increase the carry-over risk. Where Sulfos 750 WG is used on soil types with pH greater than 8 (1:5 soil:water suspension method) and less than 300mm of rainfall has occurred since application, further advice should be sought from Cheminova Australia Pty Ltd regarding crop rotations, except for Wheat and Triticale.

**Note:** Some crop yellowing or crop retardation may occur where a stress factor such as waterlogging, Rhizoctonia, take all, cereal cyst nematode, nutrient deficiency or trace element deficiency is already present. Early season crop retardation may occur where Sulfos 750 WG is used on soils with a pH greater than 8 and which are prone to zinc deficiency. See Crop Rotation Guidelines for further information.

#### RESISTANT WEEDS WARNING

GROUP	<b>B</b>	HERBICIDE
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Sulfos 750 WG is a member of the sulfonyleurea group of herbicides and has the ALS Inhibitor mode of action. For weed resistant management, Sulfos 750 WG is a Group B Herbicide. Some naturally occurring weed biotypes resistant to Sulfos 750 WG and other Group B Herbicides may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Sulfos 750 WG or other Group B Herbicides.

To prevent or at least minimise the risk of resistant weeds occurring, use Sulfos 750 WG tank mixes (if appropriate) and/or rotations with herbicides having different modes of action effective on the same weed species. **DO NOT** make more than one application of an ALS Inhibitor herbicide to a crop, either pre-sowing incorporated by sowing or post crop and weed emergence. Since the occurrence of resistant weeds is difficult to detect prior to use, Cheminova Australia Pty Ltd accepts no liability for any losses that may result from the failure of Sulfos 750 WG to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or Cheminova Australia Pty Ltd representative.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

**Dangerous to plants, including aquatic plants.**

**DO NOT** apply or drain or flush equipment on, or near desirable trees or other plants, where their roots may extend or in situations whereby movement of soil, or seepage, absorption of the herbicide may occur.

**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.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

**DO NOT** contaminate dams, streams, rivers or waterways with chemical or used containers.

## STORAGE AND DISPOSAL

Store in the closed, original container in a well-ventilated area as cool as possible and away from children, animals, food, feedstuffs, seed and fertilisers. **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 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

Will irritate eyes. Avoid contact with eyes. **DO NOT** inhale dust. Wash hands after use.

## FIRST AID

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

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from [www.cheminova.com.au](http://www.cheminova.com.au)

## WARNING

This product must be used, handled and stored strictly as directed in accordance with this label, packaging and other reference material ("Directions"). To the extent permitted by law Cheminova Australia Pty Ltd and its related companies will have no liability for any injury, loss or damage arising from a failure to follow the Directions.

APVMA Approval No: 69518/60998

Batch No:

Date of Manufacture:

Drummuster logo – relevant pack sizes

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Barcode:

FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111
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