

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

CropSure

Mulan 750WG

Herbicide

Active Constituent: 750 g/kg Sulfosulfuron

GROUP	2	HERBICIDE
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Selective herbicide for the control of certain weeds in wheat and triticale

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS
PRODUCT**

Contents: 500g – 5 kg

CropSure Pty Ltd
18 Raymond Road
Laverton North
Victoria 3026
ABN: 17 643 829 190
ACN: 643 829 190
Phone: 03 9931 2200
www.cropsure.com

STORAGE AND DISPOSAL**KEEP OUT OF REACH OF CHILDREN**

Store in the closed, original containers in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT re-use containers. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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

Will irritate the 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, New Zealand 0800 764 766).

SAFETY DATA SHEET (SDS)

Additional information is listed in the Safety Data sheet, which is available from the supplier.

CONDITIONS OF SALE

CropSure Pty Ltd shall not be liable for any loss, injury, damage or death whether consequential or otherwise, whatsoever or whosoever arising whether through negligence or otherwise, in connection with the sale, supply, use or application of this product, except for any provisions or rights under the Australian Consumer Law which cannot be excluded. The supply of this product is on the express condition that the purchaser does not rely on CropSure Pty Ltd skill of judgement in the purchasing or using the same and every person using this product does so at their own risk absolutely. The Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions. This product is designed to be only used according with the label directions.

IN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE	24HR EMERGENCY RESPONSE: AU +61 1800 951 288 NZ +64 800 700 112
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APVMA Approval No: 93916/140900

Batch No

Date of Manufacture

Very toxic to aquatic life with long lasting effects. Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Brush off loose particles from skin. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. In case of fire: Use carbon dioxide, dry chemical, foam, to extinguish. Protect from sunlight. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool. Dispose of contents and containers as specified on the registered label.

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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

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas. DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by aircraft.

PRE-EMERGENT APPLICATION

CROP	WEEDS CONTROLLED/ SUPPRESSED	RATE	CRITICAL COMMENTS
Wheat Triticale (Vic, NSW, WA, SA, Tas only)	Barley grass* Brome grass* Wild turnip	25 g/ha	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 540 g/L Glyphosate (for example CropSure Cropmaster Ultra 540 Herbicide) prior to sowing.
	Weeds as above, plus the control of Wild oats	25 g/ha plus 1.6L Tri-allate (for example CropSure Triallate 500EC Herbicide)	For best results follow the Tri-allate (500g/L) label directions for incorporation
	Weeds as above plus: Annual ryegrass Canary grass Fumitory Wireweed (Hogweed)	25 g/ha plus Trifluralin (for example CropSure Trifluralin 480EC Herbicide)	For best results follow the Trifluralin label 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)

USE THE SURFACTANT/WETTING AGENT – POST EMERGENT

Always add 471 g/L Paraffin Oil adjuvant (1-2% volume/volume) of final spray volume

CROP	WEEDS CONTROLLED/ SUPPRESSED	STAGE OF WEED GROWTH	RATE	CRITICAL COMMENTS
Wheat Triticale (Vic, NSW, WA, SA, Tas only)	Amsinckia, Wild mustard (<i>Sinapsis arvensis</i>)*	Apply at the cotyledon to 4 leaf stage	25 g/ha	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 silver grass use water volumes of at least 70 L/ha and small droplets to improve coverage. CropSure Mulan 750WG Herbicide 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*, Silver grass (<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 1-3 leaf stage, (Z11-13)	For pH > 7.0 – 20g For pH < 7.0 – 25g	
	Volunteer canola (except canola tolerant to Group B herbicides), Wild radish, Wild turnip	Apply at the cotyledon to 4 leaf stage	20 g/ha	
	Volunteer field peas	Apply at the 1-3 leaf stage, (Z11-13)		

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

PLANT BACK PERIOD: Vic, NSW, WA, SA, TAS only

Soil pH (1:5 soil-water suspension method)	Replant interval	Minimum rainfall *	CROP
6.5 or less	10 months	300mm	Canola, Chickpeas, Lentils, Lupins, Oats, Peas, Sub-clover **
	12 months		Barley, Faba beans
6.5 to 8.5	10 months	300 mm	Cereal rye
	12 months	600 mm	Barley, Canola, Chickpeas, Faba beans, Lentils, Medic **, Oats, Peas, Vetch

*minimum rainfall required between CropSure Mulan 750WG Herbicide application and the sowing of the plantback crop.

** Includes natural regeneration of sub-clover and medics. DO NOT apply to soils with a pH (water) > 8.5
For all other crops refer to CropSure Pty Ltd for further advice.

GENERAL INSTRUCTIONS

CropSure Mulan 750WG Herbicide 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. CropSure Mulan 750WG Herbicide 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 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 bare 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. CropSure Mulan 750WG Herbicide will remain in the soil for a period of time. The persistence of CropSure Mulan 750WG Herbicide 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 CropSure Mulan 750WG Herbicide, thus prior to using the product, careful consideration should be given to crop rotation plans (see Crop Safety and Crop Rotation Guidelines).

MIXING

CropSure Mulan 750WG Herbicide 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 product 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, CropSure Mulan 750WG Herbicide must be in suspension before adding the companion product or surfactant (e.g., 471 g/l Paraffin Oil adjuvant).
6. Use the spray mix within 24 hours of preparation.

APPLICATION

Apply by boom spray producing a MEDIUM spray quality. Ensure good spray coverage is obtained.

Apply using 40 to 100 litres of water per hectare. Avoid overlapping of boom runs. Use higher water volumes where crop or weed density is high.

DO NOT apply by aircraft.

SPRAYER 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 300mL 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, CropSure Mulan 750WG Herbicide must be in suspension before adding the companion product or surfactant.

Pre-emergent:

CropSure Mulan 750WG Herbicide is compatible with the following products:

- 500g/L Tri-allate (for example CropSure Triallate 500EC Herbicide),
- 450 g/L Glyphosate (for example CropSure Cropmaster 450 Herbicide), 540 g/L Glyphosate (for example CropSure Cropmaster Ultra 540 Herbicide), 680 g/kg Glyphosate (mono-ammonium salt), 250 g/L Paraquat dichloride (for example CropSure Parashot 250 Herbicide),
- 135 g/L Paraquat dichloride/115 g/l Diquat dibromide (for example CropSure Squadron 250 Herbicide),
- Triflon 480EC Herbicide (for example CropSure Trifluralin 480EC Herbicide) and Trifluralin in liquid hydrocarbon.

Post emergent:

CropSure Mulan 750WG Herbicide is compatible with the following products:

- as a two way mixture with 300 g/L clopyralid (triisopropanolamine salt) (for example CropSure Cloptrel 300SL Herbicide), up to 300mL/ha.
- 500 g/L MCPA (isooctylester) (up to 350mL/ha)
- 250 g/L MCPA (ethylhexylester) + 25 g/l Diflufenican (for example CropSure Vicious Selective Herbicide) in 325 g/l liquid hydrocarbons/150 g/l n-methyl-2-pyrrolidone (up to 750mL/ha) for treatment of brome grass, wild oats, wild mustard (*Sinapsis arvensis*), wild radish and wild turnip. Some increased temporary crop yellowing may occur.

Always add 471 g/L Paraffin Oil adjuvant at 1-2L/100L (1-2% volume/volume) of final spray volume.

CropSure Mulan 750WG Herbicide may also be mixed with 653 g/L Paraffin oil/217 g/L polyethoxylate surfactant product at 2L/100L (2% volume/volume) of final spray volume.

Incompatible:

The following herbicides and insecticides are **incompatible** with CropSure Mulan 750WG Herbicide:

400 g/kg Tralkoxydim WG

375 g/L and 500g/L Diclofop-methyl

500 g/L Terbutryn SC

290 g/L Omethoate

dicamba,

dimethoate

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. CropSure Mulan 750WG Herbicide 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 CropSure Mulan 750WG Herbicide (greater than the recommended rates), pH greater than 6.5 and low soil temperatures and low rainfall all increase the carry-over risk. Where CropSure Mulan 750WG Herbicide 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 CropSure 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 water-logging, Rhizoctonia, take-all, cereal cyst nematode, nutrient deficiency or trace element deficiency is already present. Early season crop retardation may occur where the product is used on soils with a pH greater than 8 and which are prone to zinc deficiency. See Crop Rotation Guidelines for further information.

RESISTANCE WEEDS WARNING

GROUP	2	HERBICIDE
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CropSure Mulan 750WG Herbicide is a member of the sulfonylurea group of herbicides and has the ALS inhibitor mode of action. For weed resistance management, this product is a Group 2 herbicide. Some naturally-occurring weed biotypes resistant to CropSure Mulan 750WG Herbicide and other Group 2 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 CropSure Mulan 750WG Herbicide or other Group 2 herbicides.

To prevent or at least minimise the risk of resistant weeds occurring, use CropSure Mulan 750WG Herbicide 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, CropSure Pty Ltd accepts no liability for any losses that may result from the failure of CropSure Mulan 750WG Herbicide to control the resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local farm chemical supplier, consultant, local Department of Agriculture, Department of Primary Industries, or a CropSure Pty Ltd representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET 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 where by 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. Dangerous to plants, including aquatic plants.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND EQUIPMENT

DO NOT contaminate dams, streams, rivers or watercourse with the chemical, or used containers.

STORAGE AND DISPOSAL**KEEP OUT OF REACH OF CHILDREN**

Store in the closed, original containers in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT re-use containers. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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

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, New Zealand 0800 764 766).

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