

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



F.S.A.

MANTIS

HERBICIDE

ACTIVE CONSTITUENTS:

90 g/L MEFENPYR-DIETHYL

30 g/L MESOSULFURON-METHYL

200 g/L Aromatic Hydrocarbon

GROUP

2

HERBICIDE

For the post-emergent control of wild oats and annual phalaris, and suppression of brome grass, barley grass and annual ryegrass in wheat.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USING THIS PRODUCT



FOUR SEASONS
AGRIBUSINESS

SOFTPROOF

Product ID

00000

CLIENT Four Seasons Agribusiness

NAME FSA Mantis E-Label v2

FINISHED SIZE 210mm(w) x 297mm(h)

DATE 18th February, 2025

COLOURS



CYAN



MAGENTA



YELLOW



BLACK



DIE LINE

APPROVED

NOT APPROVED

DATE: _____

SIGNATURE: _____

DGL

PLEASE NOTE:

- Colours shown in this proof may vary from the final product compared to what is shown on your screen or what you print out.
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DIRECTIONS FOR USE

RESTRAINTS

DO NOT use if rainfall or irrigation is to occur within 8 hours of application. DO NOT apply to crops undersown with legumes.

DO NOT apply to wheat before the 3-leaf stage (Z13).

DO NOT apply without surfactant/wetting agent, as detailed under 'Use of Surfactant/ Wetting Agent' in the General Instructions.

DO NOT apply to paddocks where there is a high risk of weeds resistant to Group 2 herbicides.

DO NOT apply to the wheat variety Brookton.

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. 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.

Note

This product is a sulfonylurea herbicide. It will substantially reduce the growth of many weeds rather than give complete plant kill. Refer to the critical comments in the Directions for Use Table below, for directions on specific weeds.

CROP	WEED	WEED STAGE	RATE /ha	CRITICAL COMMENTS
Wheat	Brome grass (<i>great brome</i> , <i>Bromus</i> <i>diandrus</i>)	1 leaf to 3 leaf, 1 tiller (Z11 to Z13,21)	330 mL	Suppression of brome grass. Will substantially reduce the growth of brome grass and its ability to compete with the crop and will reduce seed set but may not give a significant reduction in plant numbers. Apply generally within 4 to 7 weeks after sowing. Apply when the majority of brome grass is at the 1 leaf to 3 leaf, 1 tiller stage (Z11 to Z13, 21). Efficacy on larger plants that may have emerged before the crop may be poor. Do not use for suppression of dense brome grass populations (>150 plants/m ²). Suppression of brome grass may be improved with the use of Hasten at 1% v/v. Refer to 'Use of Surfactant/Wetting Agent' under General Instructions.
	Annual ryegrass (<i>Lolium rigidum</i>)	1 leaf to 3 leaf, 1 tiller (Z11 to Z13,21)		Suppression of annual ryegrass. Will substantially reduce the growth of annual ryegrass and its ability to compete with the crop and will reduce seed set but may not give a significant reduction in plant numbers. Apply generally within 4 to 7 weeks after sowing. Do not use for control of dense annual ryegrass populations (>200 plants/m ²).
	Barley grass (<i>Hordeum</i> <i>leporinum</i>)	1 to 4 leaf, 2 tillers (Z11 to Z14, 22)		Suppression of barley grass. Will substantially reduce the growth of barley grass and its ability to compete with the crop and will reduce seed set but may not give a significant reduction in plant numbers. Apply generally within 4 to 7 weeks after sowing. Apply when the majority of barley grass is less than the early tillering stage (Z14,22). Efficacy on larger plants may be poor. Suppression of barley grass may be improved with the use of Hasten at 1% v/v. Refer to 'Use of Surfactant / Wetting agent' under General Instructions.
	Wild oats (<i>Avena</i> spp.)	1 leaf to 3 leaf, 1 tiller (Z11 to Z13,21)		Apply generally within 4 to 7 weeks after sowing. Do not use for control of dense wild oat populations (>150 plants/m ²). Application to wild oats at more advanced growth stages or to dense populations will result in suppression of wild oats only. Growth of wild oats and the ability to compete with the crop will be reduced but plants numbers may not be significantly reduced.
	Annual phalaris, paradoxa grass (<i>Phalaris</i> <i>paradoxa</i> only)	1 leaf to 3 leaf, 1 tiller (Z11 to Z13,21)		Apply generally within 4 to 7 weeks after sowing. Do not use for control of dense phalaris populations (>300 plants/m ²). Other phalaris species may not be adequately controlled with this product.

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

WITHHOLDING PERIODS

Harvest: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION

Grazing/Stockfood: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

This product is a selective sulfonylurea herbicide. It is predominantly a foliar herbicide with less activity via the soil. This product will not reliably control weeds that emerge after spraying. Results are best under good growing conditions and application to weeds or crop under stress should be avoided.

Use of Surfactant / Wetting Agent

It is recommended that this product be applied with the addition of BS1000 bio-degradable surfactant at 0.25% v/v or either of the crop oil concentrates, Hasten or Rocket, at 1% v/v.

When applying this product for suppression of brome grass or barley grass, only use Hasten or Rocket.

The suitability of other non-ionic wetting agents or crop oil concentrates should be confirmed with Four Seasons Agribusiness Pty Ltd prior to mixing with this product.

Note: Crop effects (discolouration and slowed development) may be increased with the use of Hasten or Rocket spray adjuvants, however under normal growing conditions this should not result in any yield loss.

Crop Safety

- Do not apply to any crop other than wheat.
- Do not apply to the wheat variety Brookton.
- Westonia wheat may show reduced tolerance to this product in some situations, especially during a dry finish to the season.

Ensure adequate crop nutrition and that crop is at least the 3 leaf (Z13) stage at application.

- Wheat should be at the 3 leaf stage (Z13 growth stage), or more advanced, before application of this product.
- Do not apply to wheat that is physically damaged (e.g. by hail, wind, insect attack).
- Some crop yellowing and growth retardation may occur within 5 weeks of application. Growth retardation will be increased if the crop is affected by root disease (e.g. cereal cyst nematode, rhizoctonia, take-all (haydie)), nutritional stress, waterlogging, drought stress, excessively cold conditions or previous herbicide treatment.
- Application to very dry sandy soils followed by soaking rainfall may cause significant crop effects.
- Crop damage will be increased in highly alkaline soils (soil pH > 8.5 as determined by soil in water suspension).
- Do not apply to crops not actively growing due to cold and wet conditions or drought stress.
- Do not overlap when spraying or double spray corners.

Crop Rotation Recommendations

Minimum re-cropping intervals apply for all crops following this product application.

The application of a Group 2 herbicide in the crop following this product use may result in increased crop effects. Consult the manufacturer of this product for advice in these situations.

Rainfall of less than 250 mm following this product use will result in extended re-cropping intervals for winter crops sown the following season.

Patchy rain, with extended dry periods may also result in extended re-cropping intervals, even when rainfall exceeds 250 mm. If in doubt, seek specialist advice.

Rainfall of less than 500 mm following this product use may result in extended re-cropping intervals for summer crops sown in the following year.

Use on soils with a pH greater than 8.5 (soil in water) has not been extensively tested and is not recommended. For advice on crops not listed below, contact your local reseller or Four Seasons Agribusiness representative.

CROP	MINIMUM RECROPPING INTERVAL	NOTES/COMMENTS
Winter crops		
Wheat	1 day	
Barley	9 months	
Oats	9 months	
Triticale	9 months	
Faba beans	11 months	
Canola	9 months	
Chickpeas	9 months	
Lentils	11 months	
Lucerne, sub clover	21 months	In soils of pH > 8.0 (1:5 water suspension) and under low rainfall conditions some slight discolouration may occur, however establishment and growth through the season is generally not affected
	9 months	In soils of pH < 8.0 (1:5 water suspension) and under conditions where good seasonal rainfall has occurred between spraying and sowing (i.e. more than 250 mm)
Lupins	9 months	
Medic	21 months	
Peas	9 months	
Vetch	9 months	
Summer crops		
Cotton	12 months	
Maize	12 months	
Mungbeans	12 months	
Sorghum	12 months	
Soybeans	12 months	
Sunflowers	12 months	

Application

Ensure that complete and even spray coverage of all weeds is achieved.

Mixing

Half fill the spray tank with water, then with agitators in motion, add the correct amount of this product directly into the spray tank. Add other relevant compatible herbicides, then wetting agent or crop oil as recommended. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying.

Equipment Ground Sprayers

Standard boom sprayers only are recommended and must be fitted with by-pass or mechanical agitation. It is recommended that 50 to 80 L water/ha is applied with a medium droplet size (200-250µm). The use of flat fan nozzles is recommended. Nozzles creating coarse or very coarse spray qualities have not been thoroughly investigated at this time and cannot be recommended. Contact your Four Seasons Agribusiness representative for advice before applying this product through such nozzles.

Aircraft

Do not apply this product by aircraft.

Sprayer Clean Up

The sprayer must be decontaminated before being used to spray crops other than cereals.

Ensure that the following operation is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained.

1. Drain sprayer completely and wash out tank, boom and hoses with clean water.
2. Drain again.
3. Fill the tank with clean water and add 300 mL of chlorine bleach (containing 4% chlorine) per 100 L of water with agitation running.
4. Flush some bleach solution through booms and hoses and allow remainder to agitate in tank for 10 minutes.
5. Remove nozzles and filters and leave to soak in a bleach solution of 500 mL per 10 L of water while tank cleaning is in progress.
6. Drain tank and repeat the procedure of flushing with bleach solution.
7. Flush the tank, boom and hoses with clean water.

COMPATIBILITY

MIX PARTNER	GENERAL NOTES/ COMMENTS
Zinc-based foliar fertilisers	Must not be mixed with This product as a loss of efficacy can occur.
Lontrel	This product may be mixed with Lontrel. Use BS1000 at 0.25% v/v or a crop oil concentrate (see surfactant/wetting agent recommendations) at 1% v/v as recommended for the weeds being controlled.
Chlorpyrifos-based formulations	Must not be mixed with this product as unacceptable crop effects may occur.
Dimethoate (maximum of 500 mL/ha)	Use BS1000 at 0.25% v/v or a crop oil concentrate (see surfactant/wetting agent recommendations) at 1% v/v as recommended for the weeds being controlled.
Tigrex (maximum of 500 mL/ha)	BS1000 at 0.25% v/v must be used when mixing Tigrex. Do not apply with a crop oil as excessive crop damage may occur. If spraying brome or barley grass more reliable suppression will be obtained if this product is applied alone and a crop oil concentrate (see surfactant/wetting agent recommendations) is used.
Jaguar (maximum of 500 mL/ha)	Grass weed control may be adversely affected and the level of chlorosis and slowed crop growth may be increased. BS 1000 at 0.25% v/v must be used when mixing Jaguar. Do not apply with a crop oil as excessive crop damage may occur. If spraying brome or barley grass more reliable suppression will be obtained if This product is applied alone and a crop oil concentrate (see surfactant/wetting agent recommendations) is used.
Buctril MA (maximum of 1.0 L/ha)	This product may be mixed with Buctril MA herbicide. Use BS 1000 at 0.25% v/v or a crop oil concentrate (see surfactant/wetting agent recommendations) at 1% v/v as recommended for the weeds being controlled.
L. V. E. MCPA (maximum of 500 mL/ha)	This product may be mixed with L. V. E. MCPA herbicide. Use BS 1000 at 0.25% v/v or a crop oil concentrate (see surfactant/wetting agent recommendations) at 1% v/v as recommended for the weeds being controlled.
Precept (maximum of 1.0 L/ha)	This product may be mixed with Precept herbicide. Use a crop oil concentrate as directed on the Precept label. Rates of Precept higher than 1.0 L/ha have not been evaluated. Before mixing Precept at rates higher than 1.0 L/ha consult Four Seasons Agribusiness Pty Ltd.
Other insecticide products	For advice on mixing consult Four Seasons Agribusiness Pty Ltd.

Note:

- For advice on mixing with other products please contact Four Seasons Agribusiness Pty Ltd.
- Do not mix this product with more than one compatible product plus the appropriate adjuvant (BS 1000 or a crop oil concentrate).

RESISTANT WEEDS WARNING

F.S.A Mantis Herbicide is a member of the sulfonylurea group of herbicides and has the inhibitor of ALS mode of action. For weed resistance management this product is a Group 2 herbicide. Some naturally-occurring weed biotypes resistant to this product, and other Group 2 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 this product or other Group 2 herbicides.

Do not rely exclusively on this product for weed control. Use as part of an integrated weed management program involving herbicides with other modes of action and non-chemical methods of control. Crop Life Australia resistance management strategies are available from your local agricultural chemical supplier. Refer to these strategies for details of how to manage the build up of resistant weeds on your farm. Since occurrence of resistant weeds is difficult to detect prior to use Four Seasons Agribusiness Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Precautions**Re-entry Period**

Do not allow entry into treated areas until the spray has dried. When prior entry is necessary and if exposure to the treated crop is likely, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic plants and algae. DO NOT contaminate streams, rivers or watercourses with the chemical or used container.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands, pastures, waterways or wetlands. DO NOT apply within 3 metres of non-target vegetation or waterbodies.

Undersown Clovers and Medics

DO NOT apply to crops undersown with legumes.

STORAGE AND DISPOSAL

Store in closed, original container in a dry, cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

drumMUSTER containers:

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinsate or any undiluted chemical according to state legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.

Non-drumMUSTER containers:

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.

Refillable containers:

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal.

SAFETY DIRECTIONS

Harmful if inhaled. Will damage eyes. Will irritate the skin. May irritate the nose and throat. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water.

When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length chemical resistant gloves and face shield. Wash hands after use. After each day's use, wash gloves, face shield and contaminated clothing.

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

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

CONDITIONS OF SALE

The sale, supply, storage, use and application of this product is beyond the control of the manufacturer, and, subject to this provision, all warranties, conditions, rights and remedies express or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application are excluded. Four Seasons Agribusiness Pty Limited and its associated entities shall not accept any liability whatsoever (including consequential loss) or however arising (including negligence) for any damage, injury or death connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

Very toxic to aquatic life with long-lasting effects

**IN AN EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE**



**FOUR SEASONS
AGRIBUSINESS**

Four Seasons Agribusiness Pty Ltd
287 Boorowa Street, Young, New South Wales, Australia, 2594
ABN 98 115 133 189 ACN 115 133 189 Phone 1300 449 255
www.fourseasonsag.com



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