

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

**Eclipse<sup>®</sup>**

**HERBICIDE**

**Active Constituent: 714 g/kg METOSULAM**

**GROUP B HERBICIDE**

**For the post-emergence control or suppression of broadleaf weeds in winter cereals and lupins**

## GENERAL INSTRUCTIONS

**CEREALS - DO NOT** apply **without** a crop oil or wetting agent as specified in the **Directions For Use Tables** or the **Compatibility** section. Note that a crop oil may not be suitable in some situations.

**LUPINS - DO NOT** apply **with** crop oils, wetters, surfactants, insecticides or grass herbicides. Insecticides and grass herbicides may be applied after ten days following Eclipse application.

### Resistant Weeds Warning

Eclipse is a member of the triazolopyrimidine sulfonanilide group of herbicides. Eclipse has the acetolactate synthase (ALS) inhibitor mode of action. For weed resistance management Eclipse is a Group B herbicide. Some naturally occurring weed biotypes resistant to Eclipse and other 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 Eclipse or other Group B herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Eclipse to control resistant weeds.

Eclipse is a broadleaf herbicide with no grass weed activity and exerts no selection pressure on annual ryegrass. Strategies to minimise the risk of herbicide resistance are available at the Avcare website, [www.avcare.org.au](http://www.avcare.org.au) or contact your farm chemical supplier, consultant, local Department of Agriculture, or local Bayer CropScience representative.

### Mixing

Quarter fill the spray tank and add the required amount of Eclipse. Add any other compatible herbicides, then surfactant, crop oil or wetter if recommended and complete filling with the agitator running. Maintain the agitation during spraying. Only mix sufficient spray solution for immediate use and avoid storing.

When tank-mixing: wettable powder or water dispersible granule formulations should be added to the spray tank first, followed by suspension concentrates (flowables), aqueous concentrates, emulsifiable concentrates and finally surfactant or crop oil if recommended.

### Application

**Ground Application:** Apply Eclipse in 50 to 100 litres of water per hectare, through an accurately calibrated boom sprayer.

**Aerial Application:** Contact Bayer CropScience for more information.

### Crop Safety

**Cereals - DO NOT** apply Eclipse to Cadoux wheat as unacceptable crop injury may occur. Under some conditions Eclipse or Eclipse with partner herbicides post-emergent in wheat may result in transient crop effects (some height reduction and yellowing). This does not normally result in reduced yield. Goldmark, Silverstar and H45 may be more sensitive than other varieties.

**Lupins** - A slight yellowing (often accompanied by height reduction) may be noticeable from 1-4 weeks after application, however this is transient. Avoid spraying double overlaps.

Under conditions of growth stress (eg. due to prolonged periods of extreme cold, moisture stress, previous herbicide treatment, insect damage or disease), crop damage and reduced yields may result.

Eclipse causes severe damage to Luteus (Yellow) lupins eg. Wodjil variety.

**Compatibility**

Eclipse is compatible with the following products in the crops for which they are recommended.

**Broadleaf herbicides:** 2,4-D amine (except where doublegee (spiny emex) is present)  
(cereals only)  
Ally®  
Bromoxynil  
Buctril® MA  
Diuron (except where Indian hedge mustard is present)  
Flowable Igran® 500 SC Liquid Herbicide  
Lontrel® Herbicide  
Lontrel/MCPA LVE (except where doublegee (spiny emex) is present)  
MCPA amine (except where doublegee (spiny emex) is present)  
MCPA LVE  
Starane® 200 Herbicide  
Tordon® 75-D Herbicide

Note that some crop yellowing can be expected with metsulfuron-methyl (eg Ally), diuron or Igran mixtures and crop oils should not be used with these products.

**Grass herbicide:** Achieve® WG Herbicide  
(cereals only)  
Hoegrass® and Hoegrass 500 Selective Herbicide  
Spear® Selective Herbicide  
Topik® Selective Herbicide  
Tristar® Advance Selective Herbicide  
Puma® Progress 76 EW Selective Herbicide  
Wildcat® 110 EC Selective Herbicide

When mixing Eclipse with another herbicide the adjuvant recommendation for the partner herbicide should be used. If no surfactant, wetter or crop oil is recommended then Eclipse should be used at 7 g/ha with a non-ionic wetter/surfactant at 100 mL/100 L water.

**Cleaning Spray Equipment**

After using Eclipse, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any tank, pump, line and nozzle filters.

**To rinse:** After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

**To decontaminate:** Before spraying sensitive crops, which include canola, other *brassica* crops, field peas, beans, medics, subterranean clover and lucerne, wash the tank and rinse the system as above. Quarter fill the tank and add a liquid alkali detergent (e.g. Surf®, Omo®, Drive®) at 500 mL/100 L of water and circulate throughout the system for at least fifteen minutes. Drain the whole system.

Then remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

**Rinse water should be discharged onto a designated disposal area or if this is unavailable, onto unused land away from desirable plants and their roots, and water courses.**

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

DO NOT plant susceptible crops until nine months after application of Eclipse. Susceptible crops include canola or any other *brassica* crops, field peas, beans, medics, lucerne and subterranean clover.

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 streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area, out of 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 no landfill is available, bury the containers below 500 mm 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**

Poisonous if swallowed. Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing the spray wear elbow-length PVC gloves and a face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 131126).

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from [www.bayercropscience.com.au](http://www.bayercropscience.com.au)

**EXCLUSION OF LIABILITY**

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

Buctril<sup>®</sup>, Hoegrass<sup>®</sup>, Puma<sup>®</sup>, Spear<sup>®</sup>, Tristar<sup>®</sup> and Wildcat<sup>®</sup> are Registered Trademarks of Bayer  
Eclipse<sup>®</sup> is a Registered Trademark

NRA Approval Number 45223/0603

FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111
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**DIRECTIONS FOR USE****Restraints**

**DO NOT** apply to crops or weeds which may be stressed (inactive growth) due to prolonged periods of extreme cold, moisture stress (water-logging or drought), previous herbicide treatment, insect damage or disease as crop damage or reduced levels of control may result.

**DO NOT** spray if rain is likely to occur within two hours.

**DO NOT** apply Eclipse to Cadoux wheat as unacceptable crop injury may occur.

**Table 1: Eclipse post-emergence in WESTERN AUSTRALIA only. (Other states see Table 3)**

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE g/ha	CRITICAL COMMENTS
Wheat Barley Oats Rye Triticale	2 leaf to 1st node (Zadoks 12-31)	Wild radish	Up to 4 leaf and up to 12 cm diameter	5	5 g/ha should only be used on low to moderate (less than 100 plants/m <sup>2</sup> ) populations and where there is good crop competition. Apply with Uptake <sup>®</sup> Spraying Oil at 500 mL/100 L water or D-C-Trate <sup>®</sup> spraying oil at 1 L/100 L water.
		Hedge mustard Indian hedge mustard Turnip weed Volunteer canola Wild radish Wild turnip Yellow burrweed	Up to 8 leaf and up to 15 cm diameter	7	Apply with Uptake or D-C-Trate at rates as above.  If the weed population is less than 100 plants/m <sup>2</sup> and crop competition is good, a non-ionic wetter such as BS-1000 <sup>®</sup> at 100 mL/100 L water can be used instead of Uptake or D-C-Trate. ①Eclipse will give useful suppression of these weeds.
		Subterranean clover①	Up to 6 trifoliolate		
		Volunteer medics①	Up to 5 leaf		
		Volunteer peas①	Up to 7 nodes		
		Capeweed①	2 to 10 leaf and up to 10 cm diameter		
		Doublegee①	2 to 6 leaf and up to 10 cm diameter		
		Capeweed	Up to 5 cm diameter	5 g Eclipse + 75 mL/ha Lontrel <sup>®</sup> Herbicide	For control of capeweed: Lontrel at 75 mL/ha must be added together with Uptake or D-C-Trate at rates as above.
			Up to 5 cm diameter	5 g Eclipse + 300 mL/ha Buctril MA (bromoxynil / MCPA)	For control of capeweed: Buctril <sup>®</sup> MA (bromoxynil/MCPA) must be added together with Uptake or D-C-Trate at rates as above.
			3 leaf to 1st node (Zadoks 13-31)		
	3 leaf to 1st node (Zadoks 13-31)	Doublegee	Up to 1 leaf (5 cm max. diameter)	5 g Eclipse + 300 mL/ha Buctril MA (bromoxynil / MCPA)	For control of doublegee: Buctril MA (bromoxynil/MCPA) must be added together with Uptake or D-C-Trate at rates as above. <b>DO NOT</b> exceed doublegee growth stage.
Wheat, Barley, Rye, Triticale (not oats)			Up to 3 leaf (10 cm max. diameter)	5 g Eclipse + 3 g/ha metsulfuron-methyl (600 g/kg)	When Eclipse and metsulfuron-methyl are tank mixed together a non-ionic wetter such as BS-1000 at 100 mL/100 L water must be added. <b>DO NOT</b> add a crop oil. <b>DO NOT</b> use metsulfuron-methyl on oats.

Table 1: Eclipse post-emergence in WESTERN AUSTRALIA only. *Continued*

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE g/ha	CRITICAL COMMENTS
<p><b>Lupins</b></p> <p>Danja, Gungurru, Kalya, Kiev, and Tanjil varieties</p> <p>For information on other varieties contact Bayer CropScience</p>	Apply no earlier than the 8 leaf stage, and up to the appearance of the flower bud.	Wild radish	Up to 8 leaf and up to 20 cm diameter	7 - 10	<p><b>Surfactants/oils and tank mixes:</b> Crop oils, wetters, surfactants, insecticides or grass herbicides should not be mixed with Eclipse for application to lupins as unacceptable crop damage may occur.</p> <p><b>Rate:</b> Use 7 g/ha when wild radish population is low (less than 100 plants/m<sup>2</sup>) and growing conditions are optimal. Where higher wild radish populations (greater than 100/m<sup>2</sup>) occur or crop competition is poor, 10 g/ha should be used.</p> <p><b>Timing:</b> Delay application of Eclipse until all successive major germinations have occurred, which is normally when the majority of the weeds are at the 8 leaf stage (20 cm diameter). A minimum of ten days should elapse between application of a grass herbicide and Eclipse.</p> <p><b>Crop Tolerance:</b> Lupins should be actively growing at the time of treatment with no evidence of brown leaf spot or insect damage. A slight yellowing, often accompanied by height reduction, may be noticeable from 1-4 weeks after application, however these effects are generally transient. Avoid spraying double overlaps. For information on crop tolerance of lupin varieties not listed in the CROP column, consult Bayer CropScience.</p> <p>Eclipse causes severe damage to Luteus (Yellow) lupins eg. Wodjil variety.</p>

Table 2: Eclipse + partner herbicide post-emergence in cereals in states as specified.

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE g/ha	STATE	CRITICAL COMMENTS
Wheat Barley Oats Rye Triticale	3 leaf to 1 <sup>st</sup> node (Zadoks 13-31)	Wild radish	Up to 8 leaf and 15 cm diameter	5-7 g Eclipse + 350 - 500 mL/ha MCPA LVE (500 g/L)	All states	Apply with Uptake at 500 mL/100 L water or a non-ionic wetter such as BS-1000 at 100 mL/100 L water.  ① <b>DO NOT</b> use less than 7 g/ha Eclipse on yellow burrweed or bedstraw.  (S) Good suppression of bedstraw will be achieved with this mixture, however to ensure bedstraw control, add Starane® 200 Herbicide at 1 L/ha or Buctril MA (bromoxynil/MCPA) at 500 to 700 mL/ha.  Use the higher rates of Eclipse + MCPA LVE where the weed populations are high or growing conditions are less than ideal.
		Bedstraw (S) ① Hedge mustard Indian hedge mustard Muskweed Turnip weed Wild turnip Volunteer canola Yellow burrweed①				
		Ball mustard	Up to 6 leaf		SA only	
		Above weeds plus Capeweed Chickpeas Faba beans Lupins ② Safflower ② Thistles (S) ②③ Volunteer medics Volunteer peas Volunteer sub-clover Volunteer vetch	Up to 4 leaf Up to 4 branch, 10 cm tall Up to 4 node, 10 cm tall Up to 6 leaf, 10 cm tall Up to 5 leaf, 10 cm tall Up to 10 cm diam. Up to 6 leaf, 5 cm diam. Up to 6 nodes Up to 5 trifoliate, 5 cm diam. Up to 4 branch, 10 cm diam.		5 - 7 g Eclipse + 350 - 500 mL/ha MCPA LVE (500 g/L) + 100 mL/ha Lontrel Herbicide	NSW, ACT, Vic, SA and WA only
Above weeds plus Bedstraw ④ Prickly lettuce⑤ Sheepweed ④	Up to 4 whorl, 5 cm diam. Up to 6 leaf, 10 cm diam. Up to 4 leaf, 5 cm diam.	5-7 g Eclipse + 500 - 700 mL/ha Buctril MA (bromoxynil/MCPA) + 100 mL/ha Lontrel Herbicide	NSW, ACT, Vic, and SA only	Apply with Uptake or a non-ionic wetter such as BS-1000 at rates as above. ④ To control bedstraw and sheepweed only, use 5 - 7 g/ha Eclipse + 500 - 700 mL/ha Buctril MA (bromoxynil/MCPA). ⑤ Eclipse has little effect on prickly lettuce. Control is by the companion herbicide.  Use the higher rates of Eclipse + Buctril MA where the weed populations are high or growing conditions are less than ideal. <b>Note:</b> On larger weeds refer to Lontrel Herbicide and Buctril MA labels		

Table 3: Eclipse alone post-emergence in states (other than WESTERN AUSTRALIA) as specified.

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE g/ha	STATE	CRITICAL COMMENTS		
Wheat Barley Oats Rye Triticale	2 leaf to 1st node (Zadoks 12-31)	Turnip weed	Up to 4 leaf and up to 12 cm diameter	5	Qld, NSW, ACT only	5 g/ha should only be used on low to moderate (less than 100 plants/m <sup>2</sup> ) populations and where there is good crop competition. Apply with Uptake at 500 mL/100 L water or D-C-Trate at 1 L/100 L water.		
		Hedge mustard Indian hedge mustard Turnip weed Volunteer canola Wild radish Wild turnip Yellow burrweed	Up to 8 leaf and up to 15 cm diameter	7	Qld, NSW, ACT, Vic and SA only	Apply with Uptake or D-C-Trate at rates as above.  If the weed population is less than 100 plants/m <sup>2</sup> and crop competition is good, a non-ionic wetter such as BS-1000 at 100 mL/100 L water can be used instead of Uptake or D-C-Trate.		
		Ball mustard	Up to 6 leaf		SA only			
		Volunteer medics <sup>①</sup>	Up to 5 leaf		Qld, NSW, ACT Vic and SA only	①Eclipse will give useful suppression of these weeds.		
		Volunteer peas <sup>①</sup>	Up to 7 nodes					
		Subterranean clover <sup>①</sup>	Up to 6 trifoliates					
		Threehorn bedstraw <sup>①</sup>	Up to 4 whorls		Vic and SA only			
		<b>Lupins</b>  Jindalee, Kiev, Quilnock and Wonga* varieties  For information on other varieties contact Bayer CropScience	2-12 leaf (except Wonga)*	Wild radish	Up to 8 leaf and up to 20 cm diameter	7-10	NSW, ACT, Vic and SA only	<b>Surfactants/oils and tank mixes:</b> Crop oils, wetters, surfactants, insecticides or grass herbicides should not be mixed with Eclipse for application to lupins as unacceptable crop damage may occur. <b>Rate:</b> Use 7 g/ha when wild radish population is low (less than 100 plants/m <sup>2</sup> ) and growing conditions are optimal. Where higher radish populations (greater than 100/m <sup>2</sup> ) occur or crop competition is poor 10 g/ha should be used. <b>Timing:</b> Delay application of Eclipse until all successive major germinations have occurred, which is normally when the majority of weeds are at the 4 leaf stage (6-8 weeks after-sowing). A minimum of ten days should elapse between application of a grass herbicide and Eclipse. <b>Crop Tolerance:</b> Lupins should be actively growing at the time of treatment with no evidence of brown leaf spot or insect damage. A slight yellowing often accompanied by height reduction may be noticeable from 1-4 weeks after application, however these effects are generally transient. These crop effects may be more pronounced in Jindalee, Quilnock and Wonga varieties when treated with the 10 g/ha rate at the 2 – 6 leaf stage. Avoid spraying double overlaps. For information on crop tolerance of lupin varieties not listed in the CROP column, consult Bayer CropScience.  *Wonga variety only: <b>DO NOT</b> spray at or beyond the 8 leaf stage. Crop damage and reduced yields may result.  Eclipse causes severe damage to Luteus (Yellow) lupins eg. Wodjil variety.

Table 4: Eclipse + Glyphosate Pre-Plant to Cereals in states as specified.

CROP	CROP GROWTH STAGE	WEED CONTROLLED	WEED GROWTH STAGE	RATE g/ha	STATE	CRITICAL COMMENTS
Wheat Barley Oats Rye Triticale	Fallow, pre-sowing	Wild radish	Up to 7 leaf or up to 20 cm diameter	3 g Eclipse + 600 - 800 mL/ha glyphosate (450 g/L)	WA only <sup>①</sup>	<p>① For Western Australia the rate of the glyphosate used will determine the rate of Eclipse required.</p> <p>Use Uptake at 500 mL/100 L water or BS-1000 at 200 mL/100 L water where Eclipse is tank mixed with glyphosate for control of all weeds on this label.</p> <p>Read the glyphosate label and follow the instructions on it relating to intervals between application and planting, use of wetters/surfactants and control of weeds other than those present on this Eclipse label.</p> <p>These rates should assist in control of doublegee.</p>
				5 g Eclipse + 400 - 800 mL/ha glyphosate (450 g/L)	NSW, ACT, Qld, SA, Vic and WA only <sup>①</sup>	
		Doublegee (Spiny emex)	Up to 4 leaf and up to 10 cm diameter	3 - 5 g Eclipse + 400 - 600 mL/ha glyphosate (450 g/L)	WA only	
		Hoary cress	Up to 10 leaf and up to 10 cm diameter	5 g Eclipse + 400 - 800 mL/ha glyphosate (450 g/L)	Vic only	
		Turnip weed	Up to 10 leaf and up to 40 cm diameter	5 g Eclipse + 600 - 800 mL/ha glyphosate (450 g/L)	NSW, ACT, Qld, SA, WA and Vic only	
		Wild turnip	Up to 8 leaf or up to 15 cm diameter			
Volunteer clovers and medics	Up to 4 leaf and up to 5 cm diameter					

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

#### WITHHOLDING PERIODS

##### *Harvest*

**Cereals, lupins: NOT REQUIRED WHEN USED AS DIRECTED**

##### *Grazing*

**Cereals: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER APPLICATION**

**Lupins: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION**

When using Eclipse in a tank mix with another product take the Withholding Period of the other product into consideration.