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

Hoegrass® 500

SELECTIVE HERBICIDE

Active Constituent: **500 g/L DICLOFOP-METHYL**
Solvents: **376 g/L HYDROCARBON LIQUID**
87 g/L N-METHYL PYRROLIDONE

GROUP	A	HERBICIDE

For post-emergent control of annual ryegrass and wild oats in wheat, barley, triticale and cereal rye

GENERAL INSTRUCTIONS

Results are best under good growing conditions, when the crops and weeds are actively growing. Application to weeds or crops under stress (eg. due to continuous frosts, dry, waterlogged, nutrient deficient or diseased conditions) should be avoided.
Wild oats germinating after application will sometimes be stunted, and will not seriously compete with the crop. Application to crops with a covering of dew has been successful but should be avoided in general. If spraying cannot be completed, spray mixtures of Hoegrass 500 in clean water may be left overnight without significant loss of efficacy. The mixture should be well agitated before spraying re-commences. It is not recommended that this be general practice.

Resistant Weeds Warning

Hoegrass 500 Selective Herbicide is a member of the aryloxyphenoxypropionate group of herbicides. Hoegrass 500 is an inhibitor of acetyl coA carboxylase. For weed resistance management Hoegrass 500 is a Group **A** herbicide. Some naturally-occurring weed biotypes resistant to Hoegrass 500 and other Group **A** 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 Hoegrass 500 or other Group **A** herbicides.

Paddocks sprayed with Hoegrass 500 should be closely monitored if the paddock has a previous history of diclofop-methyl usage. If resistance is suspected, contact Bayer CropScience Pty. Ltd. or the local Department of Agriculture. To avoid further resistance problems, do not use Hoegrass 500 or other Group A herbicides. Further advice on resistance management strategies is available from your local Department of Agriculture or Bayer CropScience representative. Resistance should not be confused with poor application techniques, conditions or timing.

Since 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 Hoegrass 500 to control resistant weeds.

Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Hoegrass 500 Selective Herbicide. If you are growing produce for export, please check with Bayer CropScience Pty. Ltd. for the latest information on MRLs and import tolerances BEFORE using Hoegrass 500.

Application

Aim to apply Hoegrass 500 to the base (growing point) of weeds. Equipment must be set up to ensure penetration of the crop canopy.

Mixing

Add the required quantity of Hoegrass 500 directly to the spray tank when about two-thirds full. Top up with water to required volume, with agitators in motion. Add wetting agent just before tank is full of water to avoid excessive frothing.

Equipment

Ground Sprayers - Standard boom sprays only are recommended and must be fitted with by-pass or mechanical agitation. It is recommended to use approximately 50 to 150 L water/ha and a droplet size of 200 to 300 microns. Do not apply with boomless jets or misters. Application should be made using an enclosed cabin where possible.
Aircraft - Best results have been obtained using 20 to 30 L water/ha with a steady cross wind and a swath width of 15 to 18 metres. Aim for a droplet size of 200 to 300 microns. Do not exaggerate swath width. Aircraft operators should consult manufacturer for details. Flaggers should be protected by enclosed cabins where possible.

Compatibility

1. Mixtures of Hoegrass 500 with broadleaf herbicides may lead to a reduction in grass weed control and/or varying degrees of crop discolouration/damage. These effects can be minimised by closely following all use recommendations and restrictions.

The following table summarises the current knowledge on compatibility in wheat, barley, triticale and cereal rye crops:

	Ryegrass	**Wild oats**
Tigrex® (Up to 0.8 L/ha)	Yellow	Yellow
Jaguar® (Up to 0.75 L/ha)	Green	Yellow
Eclipse® (Up to 7 g/ha)	Green	Yellow
Broadstrike® (Up to 25 g/ha)	Green	Red
MCPA LVE 500 g/L (Up to 700 mL/ha)	Yellow	Yellow
bromoxynil	Green	Green
Buctril MA (Up to 1.4 L/ha)	Yellow	Yellow
Glean® (Up to 15 g/ha)	Yellow	Yellow
Lontrel® (Up to 150 mL/ha)	Green	Green
Ally®	Red	Red
Wildcat®/Puma® Progress	Green	Green

Green	Trials indicate no reduction in grass weed control when used as recommended. There may be minor crop discolouration in some cases. These mixtures can be used with minimal loss of activity under good growing conditions with all label recommendations followed.
Yellow	Trials indicate some reduction in grass weed control and/or minor crop discolouration at recommended rates, even under good growing conditions. These mixtures will usually result in reduced grass weed control and cannot be recommended unless such efficacy loss and possible crop discolouration is accepted.
Red	Trials at recommended rates indicate a severe reduction in grass weed control and/or significant crop injury. These mixtures cannot be recommended.

2. When mixing with broadleaf herbicides add surfactant eg. BS1000, at the rate of 250 mL per 100 L of spray solution. Reductions in grass weed control (as indicated above) can be minimised by using a minimum of 80 L water per ha by ground and 30 L by air, and if wild oats are present, use 1.5 L Hoegrass 500/ha (except barley). Do not use Buctril MA at rates above 1.4 L/ha when mixing with Hoegrass 500.

3. Allow at least 10 days between any application of Hoegrass 500 and other herbicides containing 2,4-D, MCPA, dicamba or other similar sprays, which should preferably follow Hoegrass 500.

4. Where phalaris is present, Hoegrass 500 and Wildcat/Puma Progress may be applied together at the respective recommended rates. Wetting agent should be added to this mixture at the usual rate recommended on the Hoegrass 500 label.

5. Hoegrass 500 may also be mixed with the following insecticides without a significant loss of activity: dimethoate, omethoate and phosmet.

PRECAUTIONS

Re-entry

Do not allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product or the used container.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops (eg. maize, sorghum, rice), crop lands or pasture.
DO NOT plant susceptible crops (eg. maize, sorghum, rice) for 10 weeks after application.
Undersown clovers and medics - Hoegrass 500 does not affect undersown clovers or medics or other broadleaf crops, and has no activity against broadleaf weeds.

STORAGE AND DISPOSAL (20 L pack)

Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight.
Triple or preferably pressure 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 bury empty containers in 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.

STORAGE AND DISPOSAL (100 L refillable container)
Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Empty container by pumping through the dry-break connection system. Do not attempt to unscrew the valve or breach the locked filling point. Do not contaminate the container with water or other foreign material.
Ensure that the coupler, pump, meter and hoses are disconnected, triple rinsed with clean water and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. This container remains the property of Bayer CropScience Pty Ltd.

SAFETY DIRECTIONS
Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour. If product is in eyes, wash out immediately with water. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and goggles. Wash hands after use. After each day's use, wash gloves, goggles, and contaminated clothing.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26). If swallowed, do NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET
Additional information is listed in the Material Safety Data Sheet, which can be obtained from 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.

APVMA Approval No.: 52142/0205

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

DIRECTIONS FOR USE
Restraints
DO NOT apply to weeds or crop under stress due to, for example, very dry, very wet, nutrient deficient, frosty or diseased conditions.
DO NOT apply if rainfall is expected within 2 hours.
DO NOT spray when temperatures are higher than 25ºC.

CROP	WEED	WEED STAGE	RATE L/ha	CRITICAL COMMENTS
Wheat, barley, triticale, cereal rye	Annual (Wimmera) ryegrass	2 to 4 leaf (Z12 to Z14)	0.75	Apply generally 3 to 6 weeks after sowing, when cereals usually 2 to 5 leaves (Z12 to Z21). For **barley**, apply only when crop is 4 to 5 leaf stage. For all crops **add wetting agent** at 0.25% active ingredient to water in spray tank - eg. 250 mL BS1000® /100 L water. This is irrespective of volume of water/ha or rate of Hoegrass 500.
	Wild oats	2 to 3 leaf (Z12 to Z13)	1.1	For **barley**, apply only when crop is 4 to 5 leaf stage. Avoid double spraying (overlap) at the maximum rate of 1.1 L/ha. In crops other than barley, use 1.5 L rate if most weeds are 3 to 4 leaf and if spraying 4 to 6 weeks after sowing, especially in northern NSW and Qld. For all crops **add wetting agent** as above. Use 1.1 L rate only if growing conditions are very favourable and weeds are 2 to 3 leaf, 3 to 4 weeks after sowing, and cereals usually 2 to 3 leaf (Z12 to Z13).
		3 to 4 leaf (Z13 to Z14)	1.5 (not barley)	

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

WITHHOLDING PERIOD

Harvest (All crops) – WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED
Grazing (All crops) - DO NOT GRAZE TREATED AREAS OR CUT FOR STOCK FOOD FOR 7 WEEKS AFTER APPLICATION.