

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

**Decision<sup>®</sup>**

**SELECTIVE HERBICIDE**

**ACTIVE CONSTITUENTS:** 200 g/L DICLOFOP-METHYL  
 20 g/L SETHOXYDIM  
**CROP SAFENER:** 20 g/L MEFENPYR-DIETHYL  
**SOLVENT:** 595 g/L HYDROCARBON LIQUID

**GROUP A HERBICIDE**

**For post-emergent control of annual ryegrass in barley and wheat as specified  
 in the DIRECTIONS FOR USE table**

### GENERAL INSTRUCTIONS

Results are best under good growing conditions, when weeds and crop are actively growing. Application to weeds or crop under stress (eg. due to continuous frosts, dry, waterlogged, nutrient deficient or diseased conditions) should be avoided. Refer to **Crop Safety** below.

### Resistant Weeds Warning

Decision Selective Herbicide is a member of the aryloxyphenoxypropionate and cyclohexanedione group of herbicides. Decision is an inhibitor of acetyl CoA carboxylase. For weed resistance management Decision is a Group **A** herbicide. Some naturally-occurring weed biotypes resistant to Decision, 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 Decision or other Group **A** herbicides. 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 Decision to control resistant weeds.

DO NOT make more than one application of a Group **A** Herbicide to a crop per season. For further information on herbicide resistance management consult a Bayer CropScience representative, Avcare, trained agricultural consultant or local department agronomist.

### Export of Treated Produce

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Decision 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 Decision.

### Crop Safety

Some crop yellowing and growth retardation may occur within 5 weeks of application. Such adverse crop effects may be more pronounced under wet or waterlogged conditions, or where application is to lush or soft crops.

When Decision is mixed with Hasten as recommended, crop yellowing and growth retardation may occasionally be severe, although this has been shown not to impact on crop yield. It has been found that the addition of a foliar applied zinc oxide product to the Decision/Hasten mixture can reduce these visual crop effects. Therefore, where Decision is applied with Hasten, the addition of such a foliar applied zinc oxide product (e.g. Twin Zinc or Agrichem Broadacre Zinc at 350 mL/ha) is recommended.

To minimise crop effects spray overlap or double spraying of corners should be avoided. Increased crop damage has also been noted in situations where wind vortices behind the spray boom have increased spray deposition immediately behind the spray tank. Seek to minimise such conditions.

The application of certain nitrogen foliar fertilizers may also cause adverse crop effects. To avoid compounding effects, do not apply either Decision or these foliar fertilisers if symptoms are still evident from a previous application of either product.

## Compatibility

Mixtures of Decision with broadleaf herbicides may lead to a reduction in annual ryegrass control and/or varying degrees of crop discolouration/damage.

Decision may be mixed with Tigrex® Selective Herbicide applied at up to 0.5 L/ha or with Giant® Selective Herbicide applied at up to 0.6 L/ha without adverse crop effects and with less than 10% loss in efficacy when applied as directed. Use a wetting agent, e.g. BS1000® at 0.25% v/v instead of Uptake, D-C-Trate or Hasten when tank mixing with Tigrex or Giant. This mixture should only be applied to crops that have reached the 3 leaf stage.

Decision may be mixed with MCPA LVE applied at up to 0.7 L/ha without adverse crop effects and with less than 10% loss in efficacy when applied as directed. Use Hasten at 1.0% v/v when tank mixing with MCPA LVE. Observe crop growth stage restrictions for MCPA LVE as detailed on the MCPA LVE label. Other formulations of MCPA, e.g. amine, salt have not been evaluated and are not recommended to be tank mixed with Decision.

For mixtures of Decision with Tigrex, Giant and MCPA LVE reduction in annual ryegrass control can be minimised by using a minimum of 80 L water per ha, and closely following all use recommendations and restrictions.

For the latest compatibility recommendations for Decision, refer to the most recent edition of the Decision Selective Herbicide Compatibility Guide available by contacting the Bayer CropScience Technical Enquiry Hotline 1800 804479 or from the Bayer CropScience website, [www.bayercropscience.com.au](http://www.bayercropscience.com.au).

Allow at least 10 days between any application of Decision and herbicides containing 2,4-D, 2,4-DB, MCPA or dicamba, except those listed as compatible with Decision e.g. Tigrex, Giant or MCPA LVE. Decision should preferably be applied first.

## Use of a crop oil/wetting agent

### **Decision applied alone (i.e with no other herbicides)**

When Decision is being applied alone add one of the following adjuvants;

Uptake at 0.5% v/v (i.e. 0.5 L per 100 L of spray mixture),

D-C-Trate (763 g/L petroleum oil) at 1.0% v/v (i.e. 1.0 L per 100 L of spray mixture),

or Hasten at 1.0% v/v (i.e. 1.0 L per 100 L of spray mixture). When using Hasten a suitable foliar zinc oxide product should be added to minimise crop effects e.g. Twin Zinc or Agrichem Broadacre Zinc at 350 mL/ha.

### **Decision applied with Tigrex or Giant**

When tank mixing Decision with Tigrex or Giant, a non-ionic wetting agent e.g. BS1000 at 0.25% v/v (i.e. 250 mL per 100 L of spray mixture) should be added instead of Uptake, D-C-Trate or Hasten.

### **Decision applied with MCPA LVE**

When tank mixing Decision with MCPA LVE add Hasten at 1% v/v (i.e. 1.0 L per 100 L of spray mixture).

## Application

Ensure that complete and even spray coverage of weeds is achieved. Aim to apply Decision to the growing point (base) of annual ryegrass. Equipment must be set up to ensure penetration of the crop canopy.

## 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 150 L water/ha is applied with a droplet size of 200 to 300 microns (application as a FINE/MEDIUM spray as defined by ASAE S572 Standard). 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 Bayer CropScience representative for advice before applying this product through such nozzles.

**Aircraft** – Contact the Bayer CropScience Technical Enquiry Hotline on 1800 804479 for further information before applying from aircraft.

## Mixing

When applying Decision with Uptake, D-C-Trate or Hasten, add half the required amount of water to the tank, then add the measured amount of Decision with the agitator running. Where Hasten is used, then add a zinc oxide product as recommended. Continue filling to the desired level and then, with the agitator still running, add the required amount of Uptake, D-C-Trate or Hasten.

When applying Decision with Tigrex or Giant and a wetting agent, add half the required amount of water to the tank, then with the agitator running, add the measured amount of Decision and continue agitation for 2 to 3 minutes; add the Tigrex or Giant and continue agitation for a further 2 to 3 minutes; add the required amount of wetting agent, agitate for a further 2 to 3 minutes, then add the remainder of water.

When applying Decision with MCPA LVE and Hasten, add half the required amount of water to the tank, then with the agitator running, add the measured amount of Decision and continue agitation for 2 to 3 minutes; add the MCPA LVE and continue agitation for a further 2 to 3 minutes; add the required amount of Hasten, agitate for a further 2 to 3 minutes, then add the remainder of water.

Do NOT allow spray mix to sit overnight.

**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 (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

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

Dangerous to fish and other aquatic organisms. 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 (eg. cereals other than barley or wheat, maize, sweetcorn, sorghum, rice or turf grasses), adjacent crops, crop lands or pasture.

DO NOT plant susceptible crops (eg. maize, sorghum, rice) for 10 weeks after application.

**Undersown clovers and medics:** Decision does not affect undersown clovers or medics or other broadleaf crops.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

**20 litre containers**

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. Do not re-use container for any other purpose.

**110 litre containers**

If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured.

Empty container by pumping through dry-break connection system. Do not attempt to breach the valve system or the filling point, or contaminate the container with water or other products. 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.

**1000 L minibulk containers**

If tamper evident seals are broken prior to initial use then the integrity of the contents cannot be assured.

Empty product as required into application equipment. Do not attempted to breach the valve system or filling point, or contaminate the container with water or other products. Ensure that equipment used in transfer of the product is disconnected, triple rinsed and drained after each use.

When the container is empty, close all caps and valves and return the container to the point of purchase.

**SAFETY DIRECTIONS**

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, elbow-length nitrile gloves and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC or nitrile gloves. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or 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](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.

Decision<sup>®</sup>, Giant<sup>®</sup> and Tigrex<sup>®</sup> are Registered Trademarks of Bayer

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

**DIRECTIONS FOR USE****Restrains**

DO NOT apply to any crop other than barley or wheat.

DO NOT apply to crops that are physically damaged (e.g. by hail, wind, insect attack).

DO NOT allow spray overlap or double spraying of corners

DO NOT apply to weeds or crops under stress due to for example, very dry, very wet, nutrient deficient, frosty or diseased conditions, or as the result of a previous herbicide or foliar fertiliser treatment (see also **General Instructions**).

DO NOT apply if rainfall is expected within 2 hours.

CROP	WEED	STATE	WEED STAGE	RATE (L/ha)	CRITICAL COMMENTS
Barley, wheat	Annual ryegrass ( <i>Lolium rigidum</i> )	NSW, ACT, Vic, Tas, SA, WA only	2 leaf to one tiller (Z12 to Z14, 21)	1.0	<p>Apply generally 3 to 6 weeks after sowing, when the crop is usually 2 leaf to 1 tiller (Z12 to Z14, 21).</p> <p>When Decision is being applied alone add one of the following adjuvants;            Uptake<sup>®</sup> at 0.5% v/v,            D-C-Trate<sup>®</sup> (763 g/L petroleum oil) at 1.0% v/v,            or Hasten<sup>®</sup> at 1.0% v/v. When using Hasten a suitable foliar applied zinc oxide product should be added e.g. Twin Zinc or Agrichem Broadacre Zinc at 350 mL/ha.</p> <p>When Decision is to be tank-mixed with a compatible product, refer to <b>Use of a crop oil/wetting agent</b> under GENERAL INSTRUCTIONS.</p>

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

**WITHHOLDING PERIOD**

**Harvest: NOT REQUIRED WHEN USED AS DIRECTED**

**Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 WEEKS AFTER APPLICATION.**