



The miracles of science™

# DuPont™ Harmony® M herbicide

## Technical Information

**Active Constituent:**  
682 g/kg THIFENSULFURON METHYL  
68 g/kg METSULFURON METHYL

**Pack Sizes:**  
500 g

GROUP	<b>B</b>	HERBICIDE
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### CAUTION READ SAFETY DIRECTIONS BEFORE OPENING OR USING

For the control of certain broadleaf weeds in Wheat, Barley, and Triticale as per Directions for Use.

#### SAFETY DIRECTIONS

Will irritate the eyes. May irritate the skin. Avoid contact with eyes and skin. When preparing and using the prepared spray wear elbow length PVC gloves and 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

#### FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. For further information refer the Material Safety Data Sheet

#### GENERAL INSTRUCTIONS

Apply early crop emergence (3 leaf or later) when weeds are actively growing. Refer to "Directions for Use" for specific recommendations.

Where treatment is delayed or when weeds are not actively growing due to adverse conditions results may be slow to appear and weeds may be only stunted or suppressed.

The duration of weed control is dependent on various environmental conditions eg. soil pH, temperature, soil moisture and organic matter. Weed control is generally longest in dry, cold, alkaline soils low in organic matter and shortest in wet, warm, acid soils high in organic matter.

Crops other than wheat, barley, and triticale may be extremely sensitive to low concentrations of residues in the sprayer or in the soil. See "Sprayer Cleanup" and "Minimum Recropping Interval Recommendations".

#### RESISTANT WEEDS WARNING

GROUP	<b>B</b>	HERBICIDE
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Harmony® M is a member of the sulfonylurea group of herbicides. Harmony® M has the ALS inhibitor mode of action. For weed resistance management Harmony® M is a Group B herbicide.

Some naturally-occurring weed biotypes resistant to Harmony® M and other ALS inhibitor 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 Harmony® M or other ALS inhibitor herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Du Pont (Australia) Limited accepts no liability for any losses that may result from the failure of Harmony® M to control resistant weeds.

Strategies to minimise the risk to herbicide resistance are available. Consult your farm chemical supplier, consultants, local Department of Agriculture or Primary Industries, or local DuPont representative.

#### Crop Safety

Apply Harmony® M from the 3 leaf stage through to flag leaf fully emerged stage (commencement of booting) of the crop.

**DO NOT** use on furrow or flood irrigated crops as damage may occur to nearby crops.

Use of this product on land having a soil pH of 5.5 or less may result in some crop retardation, particularly if the crop is stressed.

**DO NOT** apply to crops that are stressed by any cause (such as severe weather conditions, drought, waterlogging, excessive soil acidity or alkalinity, poor nutrient status, disease, nematode or insect damage) as crop injury may result. When treatment is followed by severe stress (such as drought, prolonged cold, waterlogging or frosty conditions) crop yellowing and growth retardation may occur. Crops normally recover without loss in yield. Disease, nematode or insect damage following application may also result in crop injury.

Not recommended for use on Durum wheat varieties.

### Spray Preparation

Harmony<sup>®</sup> M is a dry flowable formulation to be mixed with water and applied as a spray. Partially fill the spray tank with water. Using the measuring guide provided measure the amount of Harmony<sup>®</sup> M required for the area to be sprayed. Add the correct amount of Harmony<sup>®</sup> M to the spray tank with the agitation system engaged. Top up to the correct volume with water. **THE MATERIAL MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION.**

In tank mixes Harmony<sup>®</sup> M must be in suspension before adding the companion herbicide or surfactant.

For application of Harmony<sup>®</sup> M in a liquid fertiliser, slurry the Harmony<sup>®</sup> M in water, then thoroughly mix the slurry into the liquid fertiliser. Check compatibility before mixing Harmony<sup>®</sup> M in fertiliser solutions. **DO NOT** add a surfactant/wetting agent.

Where prepared spray solutions have been allowed to stand, thoroughly re-agitate before using.

### Use of Surfactant/Wetting Agent

Add a non-ionic surfactant at a rate of approximately 0.1 % (active constituent) of final spray volume e.g. BS 1000 at 100 mL/100 L unless:

- mixing with a liquid fertiliser;
- mixing with another product which already contains a surfactant and/or the product label advises not to add a surfactant.

### Ground Spraying

Use a boom spray properly calibrated to a constant speed and rate of delivery to ensure thorough coverage and a uniform spray pattern. Avoid overlapping and shut off spray booms while starting, turning, slowing or stopping as injury to the crop may result. Apply a minimum of 50 L prepared spray/ha.

### Aerial Spraying

Apply a minimum of 30 L/ha water. Avoid spraying in still conditions and in winds likely to cause drift onto adjacent sensitive crops. Avoid spraying where drift can go onto areas likely to be sown to sensitive crops - see "Minimum Recropping Interval Recommendations". Turn off spray boom whilst passing over creeks, dams and trees.

### MINIMUM RECROPPING INTERVAL RECOMMENDATIONS

Land previously treated with Harmony<sup>®</sup> M should not be rotated to crops other than those listed in the table below.

Tolerance of other crops (grown through to maturity) should be determined on a small scale before sowing into larger areas.

The Harmony<sup>®</sup> M treated area may be replanted to any of the specified crops after the interval indicated below:

Organic Matter %	Soil Ph*	Minimum Recropping Interval (Months After Application)**				
		3	4	6	9	14
No Less Than 1.7 %	7.8 and Less	Cereal Rye Triticale Wheat	Japanese Millet Mungbean Sorghum Soybean Sunflower	Maize	Barley Chickpeas Faba Beans	Panorama Millet White French Millet
	Japanese Millet Sorghum Maize			Linseed Lucerne Lupins Medics*** Oats Peas		
				Rapeseed Safflower Subterranean Clover***	Japanese Millet Maize Mungbean Panorama Millet Sorghum Soybean Sunflower White French Millet	
Less than 1.7 % and/or soil pH 8.6 and above	Tolerance of crops (grown through to maturity) should be determined on a small scale, in the previous season, before sowing into larger areas.					

\* Soil pH is to be determined by laboratory analysis using the 1:5, soil:water suspension method

\*\* No less than 400 mm of rainfall between Harmony<sup>®</sup> M application and sowing of the rotational crop.

\*\*\* Includes natural regeneration of Medics and Subterranean Clover

### Sprayer Cleanup

To avoid subsequent injury to crops other than wheat, barley, and triticale, immediately after spraying thoroughly remove all trace of Harmony<sup>®</sup> M from mixing and spray equipment as follows:

1. Drain tank, then flush tank, boom and hose with clean water for a minimum of 10 minutes.
2. Fill the tank with clean water than add 300 mL chlorine bleach (containing 4 % chlorine) per 100 L of water. Flush through boom hoses then allow to stand for 15 minutes with agitation engaged, then drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

**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

Harmony<sup>®</sup> M is compatible with Puma<sup>1</sup>.

Harmony<sup>®</sup> M is not compatible with Grasp<sup>2</sup> or Mataven<sup>3</sup>.

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

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

- **DO NOT** apply or drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.
- **DO NOT** apply or allow spray to drift onto adjacent crops and non-target desirable plants, or onto agricultural land scheduled to be planted to other crops as injury to the crop may occur.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEA 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, well ventilated area. **DO NOT** store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Triple or preferably pressure rinse empty 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 not available bury the containers below 500mm 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.

IN A MEDICAL EMERGENCY CALL  
1800 674 415 All hours

**NOTICE TO BUYER**

To the extent permitted by law all conditions and warranties and statutory or other rights or action which buyer or any other user may have against DuPont of Seller are hereby excluded. DuPont hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product or information provided by DuPont or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. DuPont's liability shall in all circumstances be limited to replacement of the product or a refund of the purchase price paid therefor.

APVMA Approval number: 39911/01

**DIRECTIONS FOR USE – POST CROP AND WEED EMERGENCE RESTRAINTS**

**DO NOT** store a suspension of Harmony<sup>®</sup> M for more than 2 days otherwise significant breakdown may occur.

**DO NOT** store tank mixes of Harmony<sup>®</sup> M with other materials for more than 24 hours as product breakdown may occur.

**DO NOT** use in winter cereal crops (wheat, barley, and triticale) undersown with legume pasture species, eg. medics, lucerne.

CROPS	WEEDS CONTROLLED	STATE(S)	RATE g/ha	CRITICAL COMMENTS	
Wheat, Barley, Triticale	African Turnip weed ( <i>Sisymbrium thellungii</i> )	Old and NSW only	30	Apply at cotyledon up to the 4 leaf stage. Use the higher rate for larger weeds, and/or under heavy weed pressures.	
			40	Apply from 4 Leaf up to 6 leaf stage.	
	Bittercress ( <i>Coronopus didymus</i> )		30	Apply at cotyledon up to the 4 leaf stage.	
			40	Apply from 4 leaf up to 10 cm rosette stage.	
	Black Bindweed/ Climbing Buckwheat ( <i>Fallopia convolvulus</i> )			40	Apply at cotyledon to 4 leaf stage. Spray actively growing weeds.
	Common Sowthistle ( <i>Sonchus oleraceus</i> )			30	Apply at cotyledon up to the 4 leaf stage.
			40	Apply from 4 leaf to the 6 leaf stage.	
	Deadnettle ( <i>Lamium amplexicaule</i> )			30	
	Fumitory ( <i>Fumaria densiflora</i> )			40	Apply to weeds up to the 6 leaf stage.
	Hedge Mustard ( <i>Sisymbrium officinale</i> )		NSW only	45	
	New Zealand Spinach ( <i>Tetragonia tetragonoides</i> )		Old and NSW only	40	Apply up to the 4 leaf stage.
	Peppercress ( <i>Lepidium fasciculatum</i> )			30	Apply at cotyledon up to the 4 leaf stage.
				40	Apply from 4 leaf up to 10 cm rosette stage.
	Prickly Lettuce ( <i>Lactuca serriola</i> )				40
Spiny Emex ( <i>Emex australis</i> )		45		Apply at cotyledon up to the 4 leaf stage. Use the higher rate for larger weeds, and/or under heavy weed pressures.	
	40	Apply from 4 leaf to 6 leaf stage			
	40	Apply from cotyledon to 6 leaf stage.			
Stagger weed ( <i>Stachys arvensis</i> )		40	Apply up to the 10 leaf stage.		
Sunflower (Volunteer) ( <i>Helianthus annuus</i> )		40			
Turnip weed ( <i>Rapistrum rugosum</i> )		30			
Wild Radish ( <i>Raphanus raphanistrum</i> )	Old Only	45	For best results apply to weeds up to the 4 leaf stage.		
Wireweed ( <i>Polygonum aviculare</i> )	Old and NSW Only	40	Apply at cotyledon to 6 leaf stage. For best control avoid application to stressed weeds.		

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

**WITHHOLDING PERIOD**

**DO NOT APPLY LATER THAN 8 WEEKS BEFORE HARVEST.**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.**

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