The miracles of science

# DuPont<sup>™</sup> Express<sup>®</sup> herbicide

## **Technical Information**

Active Constituent: 750 g/kg TRIBENURON METHYL

GROUP **B** HERBICIDE

Pack Sizes: 500 g

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

For the control of certain broadleaf weeds in fallow and pre-crop situations as per Directions for Use Table.

#### SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. When preparing spray wear elbow-length PVC gloves and face shield or goggles. If product in eyes, wash 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 (ph 13 11 26). For further information, refer to the Material Safety Data Sheet.

#### **GENERAL INSTRUCTIONS**

Best results are obtained when DuPont Express<sup>®</sup> herbicide is applied to young actively growing weeds. The rate will depend on weed spectrum at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weeds and environmental conditions at the time of and following application.

DuPont Express<sup>®</sup> herbicide stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discolouration) may not be noticeable for 1 to 3 weeks after application depending on the environmental conditions and susceptibility. Warm, moist conditions following treatment promote the activity of DuPont Express<sup>®</sup> herbicide, while cold, dry conditions delay activity. Weeds hardenedoff by cold weather and/or drought stress will be less susceptible.

Where recommended the addition of Glyphosate will enhance knockdown and control of weeds. It also helps minimise the risk of resistant weeds occurring.

#### **RESISTANT WEEDS WARNING**

# GROUP B HERBICIDE

DuPont Express<sup>®</sup> herbicide is a member of the Sulfonylurea group of herbicides. DuPont Express<sup>®</sup> herbicide has the Inhibitor of Acetolactate Synthase (ALS) mode of action. For weed resistance management DuPont Express<sup>®</sup> herbicide is a Group B herbicide. Some naturally-occurring weed biotypes resistant to DuPont Express<sup>®</sup> herbicide and other ALS 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 DuPont Express<sup>®</sup> herbicide or other ALS herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, DuPont accepts no liability for any losses that may result from failure of DuPont Express<sup>®</sup> herbicides to control resistant weeds.

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be taken to prevent seed set of these survivors.

**DO NOT** use an ALS inhibitor herbicide against the same weed in the crop following the use of DuPont Express<sup>®</sup> herbicide alone either as a fallow or pre-crop treatment. This **DOES NOT** apply if the fallow or pre-crop use of DuPont Express<sup>®</sup> herbicide was tank mixed with glyphosate.

Avoid the prolonged use of ALS inhibitor herbicides on the same weed population.

If the user suspects that an ALS inhibitor resistant weed is present, DuPont Express<sup>®</sup> herbicide or other ALS inhibitors herbicides recommended for the control of that weed should not be used. (continued next page) Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local DuPont Representative.

#### **Crop Safety**

**DO NOT** apply DuPont Glean<sup>®</sup> cereal herbicide, DuPont Ally<sup>®</sup> herbicide or Logran<sup>1</sup> in a tank mix with DuPont Express<sup>®</sup> herbicide as a fallow or pre-crop treatment.

#### **Spray Preparation**

DuPont Express<sup>®</sup> herbicide is a dry flowable formulation to be mixed with water and applied as a spray. Partially fill the spray tank with water. Using the Express<sup>®</sup> measuring cone provided, measure the amount of DuPont Express<sup>®</sup> herbicide required for the area to be sprayed. Add the correct amount of DuPont Express<sup>®</sup> herbicide 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, DuPont Express<sup>®</sup> herbicide must be in suspension before adding the companion herbicide or surfactant/wetting agent.

#### Compatibility

DuPont Express  $^{\circ}$  herbicide is compatible with glyphosate herbicides eg Nufarm Glyphosate CT and Roundup  $^2$  CT.

#### **Use of Surfactant/Wetting Agent**

Always add non-ionic surfactant (1000 g/L - non buffering type) at 100 mL/100 L (0.1 % v/v) of final spray volume. When applying DuPont Express<sup>®</sup> herbicide alone by air in addition to a non-ionic surfactant add a mineral spray oil at 1 L/100 L (1 % v/v) of final spray volume.

#### **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. Apply a minimum of 50 L prepared spray/ha.

#### **Aerial Spraying**

Apply in a minimum of 20 L/ha water. Application in 30 L/ha will improve performance reliability. Avoid spraying in still conditions and in winds likely to cause drift onto adjacent sensitive crops or fallow areas likely to be planted to these crops  $\cdot$  see Crop Options section . Turn off spray boom whilst passing over creeks and dams.

DO NOT apply when a temperature air inversion is likely to occur.

#### **Sprayer Cleanup**

To avoid subsequent injury to crops immediately after spraying thoroughly remove all traces of DuPont  ${\sf Express}^{\circ}$  herbicide from mixing and spray equipment as follows:

- 1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- 2. Rinse inside of tank with clean water and flush through boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.

- 3. Half fill tank with clean water adding household ammonia to give a 1 % solution (equivalent ratios include 1/3 L household ammonia product (containing 9.5 % ammonia) for each 100 L of tank volume. Agitate, and then flush the boom and hoses with the cleansing solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation engaged. Again flush the boom and hoses and drain tank completely.
- Nozzles and screens should be removed and cleaned separately with ammonia solution at the same concentration as used for the sprayer.
- 5. Rinse the tank with clean water and flush through boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
- 6. **DO NOT** spray the tank rinsate onto sensitive crop or land intended for cropping with sensitive crop.

NOTE: If not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

#### **Crop Options**

Land previously treated with DuPont Express<sup>®</sup> herbicide may be sown to any of the specified crops after the interval indicated in the following table:

Minimum interval	Crops**	
3 days	Barley	
	Oats	
	Wheat	
# 7 or 21 days	Maize	
	Mung beans	
	Sorghum	
	Soybeans	
	Sunflowers	

- # NOTE: DuPont Express<sup>®</sup> is broken down in soil, primarily by chemical hydrolysis, but to a lesser degree by microbial degradation. Breakdown is fastest in warm, wet acid soils and slower in cold, dry alkaline soils. For the above summer crops, if minimum soil temperatures at planting depth are less than or equal to 15 °C for three consecutive days, then plantback intervals should be extended to 21 days.
- \*\* As a herbicide resistance countering measure, DO NOT use an ALS inhibitor herbicide in any of these crops following the use of DuPont Express<sup>®</sup> alone as a preceding fallow or pre-crop treatment.

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

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

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

**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, CRUSTACEA AND ENVIRONMENT

**DO NOT** contaminate streams, rivers, waterways with the chemical or used containers.

#### **PROTECTION OF LIVESTOCK**

The use pattern is such that a withholding period for harvest or grazing is not required. It is recommended however, not to graze treated areas for 2 to 3 days to ensure adequate control is achieved.

#### **STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Keep from contact with fertilisers, insecticides, fungicides and seeds.

**DO NOT** re-use container. 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 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.

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 of action which buyer or any other user may have against DuPont or Seller are hereby excluded. DuPont hereby gives notice to buyer and other users that it will not accept any responsibility for any indirect or consequential loss arising from reliance on product information or advice 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 therefore.

#### APVMA Approval number: 46440/1299

#### DIRECTIONS FOR USE RESTRAINTS

**DO NOT** apply to weeds that are not actively growing or stressed by any cause such as adverse weather conditions, drought, waterlogging. Broadleaf weeds under stress frequently become less susceptible to herbicide activity. This may result in an incomplete kill or only growth suppression. If heavy grazing has occurred allow regrowth before spraying.

Minimum volumes of prepared spray to be applied: - ground application - 50 L/ha - aerial application - 20 L/ha.

Use prepared spray suspensions within two days of preparation, otherwise significant breakdown may occur. **DO NOT** apply if rainfall is expected within 2 hours.

## Express<sup>®</sup> alone- NSW & Qld ONLY

SITUATION	WEEDS CONTROLLED	RATE g/ha	WEED GROWTH Stage at Application	CRITICAL COMMENTS
As a herbicide resistanc	e countering measure, <b>DO NOT</b> use	an ALS inhi	bitor herbicide in the crop	following the use of Express $^{\circ}$ alone as a preceding fallow or pre- crop treatment
FALLOW and PRE-CROP (Refer to Crop options section for minimum intervals between application and sowing)	Amaranthus /Boggabri weed (Amaranthus mitchellii)	25	Apply up to the 10 leaf stage.	
	Caltrop/Yellowvine <i>(Tribulus terrestris)</i>			
	Common Sowthistle /Milk thistle <i>(Sonchus oleraceus)</i>			
	Deadnettle <i>(Lamium amplexicaule)</i>		Apply up to the 6 leaf stage.	If weeds are at a more advanced growth stage and/or are present in high numbers (greater than 50 per $m^2$ ) use a Glyphosate mixture as specified in Express + Glyphosate Tank mix table.
	Medics (Native) <i>(Medicago spp.)</i>	30	Apply up to 5 cm diameter.	
	New Zealand Spinach (Tetragonia tetragonoides)	20	Apply up to the 10 leaf stage.	
	Prickly Lettuce (Lactuca serriola)	30	Apply up to the 4 leaf stage.	If weeds are at a more advanced growth stage and/or are present in high numbers (greater than 50 per $m^2$ ) use a Glyphosate mixture as specified in Express + Glyphosate Tank mix table.
	Turnip weed <i>(Rapistrum rugosum)</i>	20	Apply up to flowering.	

SITUATION	WEEDS CONTROLLED	RATE g/ha	WEED GROWTH STAGE AT APPLICATION	CRITICAL COMMENTS
FALLOW and PRE-CROP (Refer to Crop Options section for minimum intervals between application and sowing)	Black bindweed (Fallopia convolvulus)	25 + Glyphosate (450 g/L) 600 mL/ha	Apply up to the 10 leaf stage.	For best control, apply to small actively growing wee Larger weeds are more difficult to control.
	Common Thornapple <i>(Datura</i> <i>stramonium)</i>	20 + Glyphosate (450 g/L) 400 mL/ha	Apply up to the 8 leaf stage.	
	Deadnettle <i>(Lamium amplexicaule)</i>	25 + Glyphosate (450 g/L) 40 mL/ha	Apply up to the 10 leaf stage.	
	Mintweed <i>(Salvia reflexa)</i>	15 + Glyphosate (450 g/L) 60 mL/ha		
	Pigweed/Portulaca <i>(Portulaca oleracea)</i>	20 + Glyphosate (45 g/L)		
	Prickly Lettuce (Lactuca serriola)	600 mL/ha	Apply up to the 6 leaf stage.	

### Express<sup>®</sup> + *Glyphosate* Tank mixes - NSW & Old Only For the control of these weeds in addition to those in the Express<sup>®</sup> alone table.

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

### <u>WITHHOLDING PERIODS</u> NOT REQUIRED WHEN USED AS DIRECTED.

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