

# POISON

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

# Marathon®

## Herbicide

ACTIVE CONSTITUENT: **230 g/L PYRASULFOTOLE**

CROP SAFENER: **58 g/L MEFENPYR-DIETHYL**

SOLVENT: **288 g/L DIMETHYL SULFOXIDE**

GROUP **27** HERBICIDE

CROPS: Wheat and barley

CONTROLS: A wide range of post-emergent, broadleaf weeds as per the Directions for Use

Formulation type  
Emulsifiable Concentrate **EC**



adama.com

CONTENTS: 1 L - 1000 L

### RESTRAINTS

DO NOT apply to crops or weeds affected by frost and/or very cold temperatures, or if frosts are imminent.  
DO NOT apply when dew is present.  
DO NOT apply if irrigation or rainfall which can cause field run off is likely to occur within 2 hours of application.  
DO NOT apply through a mister.

### SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.apvma.gov.au/spraydrift)

**DO NOT** allow **bystanders** to come into contact with the spray cloud.

**DO NOT** apply in a manner that may cause an **unacceptable impact** to **native vegetation, agricultural crops, landscaped gardens and aquaculture production**, or cause contamination of plant or livestock commodities, outside the application site from **spray drift**. The **buffer zones** in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

**DO NOT** apply unless the **wind speed** is between 3 and 20 kilometres per hour at the **application site** during the time of application.

**DO NOT** apply if there are **hazardous surface temperature inversion** conditions present at the **application site** during the time of application. **Surface temperature inversion conditions** exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

### MANDATORY NO-SPRAY ZONES

#### Boom Sprayers

**DO NOT** apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than **COARSE** spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

#### Buffer Zones for Boom Sprayers – MARATHON® + Bronco® 400

Application rate		Boom Height above target canopy	Mandatory buffer zones (distances given in metres)				
MARATHON®	Bronco® 400		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
Up to 85 mL/ha	Up to 265 mL/ha	0.5 m or lower	0	0	0	30	0
		1.0 m or lower		10		85	
Up to 110 mL/ha	Up to 350 mL/ha	0.5 m or lower		0		35	
		1.0 m or lower		10		110	
Up to 165 mL/ha	Up to 525 mL/ha	0.5 m or lower		0		50	
		1.0 m or lower		15		150	

**Buffer Zones for Boom Sprayers – MARATHON® + LVE MCPA 570 with/without Victory® 600**

Application rate		Boom Height above target canopy	Mandatory buffer zones (distances given in metres)				
MARATHON®	LVE MCPA 570		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
Up to 110 mL/ha	Up to 220 mL/ha	0.5 m or lower	0	0	0	10	0
		1.0 m or lower				40	
Up to 165 mL/ha	Up to 330 mL/ha	0.5 m or lower				20	
		1.0 m or lower				50	
Up to 220 mL/ha	Up to 440 mL/ha	0.5 m or lower				25	
		1.0 m or lower				60	

**Aerial application**

DO NOT apply MARATHON® + Bronco® 400 by aircraft.

**For MARATHON® + LVE MCPA 570 tank mix (with/without Victory® 600):**

DO NOT apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a **COARSE** spray droplet size category.
- For maximum release height above the target canopy of 3 m or 25% of wingspan or 25% of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

**Buffer Zones for Aerial Sprayers – MARATHON® + LVE MCPA 570 (with/without Victory® 600)**

Application rate		Type of Aircraft	Mandatory buffer zones (distances given in metres)						
MARATHON®	LVE MCPA 570		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas		
Up to 110 mL/ha	Up to 220 mL/ha	Fixed-wing	0	0	0	140	15		
		Helicopter				10		100	
Up to 165 mL/ha	Up to 330 mL/ha	Fixed-wing				5		170	30
		Helicopter				10		120	25
Up to 220 mL/ha	Up to 440 mL/ha	Fixed-wing				10		210	50
		Helicopter				15		140	30

**DIRECTIONS FOR USE**

**Table 1: CROP GROWTH STAGES FOR MARATHON® WITH MANDATORY TANK MIX PARTNERS**

See Table 2. For WEEDS CONTROLLED OR SUPPRESSED by each tank mixture.

CROP	CROP GROWTH STAGE	RATE	CRITICAL COMMENTS
Wheat, barley	2 leaf (GS12) to first node (GS31)	85 to 165 mL/ha MARATHON® + 265 to 525 mL/ha Bronco® 400 + Adjuvant	<p>Apply only on actively growing weeds. Optimum results are achieved when sprayed 4 - 6 weeks after sowing onto maximum 4 leaf weeds when cereals have usually 2 to 5 leaves (GS12-GS21). DO NOT use without a listed tank-mix partner and Adjuvant. Tank-mixes are necessary for effective weed control and are also an essential resistance management strategy.</p> <p>Use the lower rates when good coverage of individual weeds can be achieved. Use the high rate on high density weed populations or when excellent coverage cannot be achieved. High weed density may cause shading of plants lower in the weed canopy and good control may not be achieved by MARATHON®. A follow up application of a suitable herbicide may be required to control remaining plants.</p> <p><b>*ADDITIONAL TANK MIX PARTNERS:</b></p> <p>Addition of other herbicides registered for use in cereals (Refer to the Compatibility guide), in addition to the mandatory tank-mix partners can extend the weed spectrum and aid in resistance management. Please refer to additional tank mix partner label for weeds controlled, restraints, crop growth stage, rates approved, plantback periods, withholding periods and Mode of Action (MoA) for resistance management strategy before tank mixing.</p> <p>MARATHON® + Bronco® 400 + LVE MCPA 570 may provide faster control than with only Bronco® 400 or LVE MCPA 570 in most situations.</p>
Wheat, barley	3 leaf (GS13) to first node (GS31)	<p>110 to 220 mL/ha + 220 to 440 mL/ha ADAMA LVE MCPA 570 + Adjuvant</p> <p>Additional tank mix partners*: 40 to 75 mL/ha Victory® 600</p> <p>See ADJUVANT section in GENERAL INSTRUCTIONS prior to use.</p>	

**Table-2: Weed table and rates for Bronco® 400 and ADAMA LVE MCPA 570 tank-mix.**

See Table-1 for cereal growth stage prior to application.

WEEDS and WEED GROWTH STAGE	MARATHON® + Bronco® 400 MINIMUM APPLICATION RATES	MARATHON® + ADAMA LVE MCPA 570 MINIMUM APPLICATION RATES
Bedstraw ( <i>Galium tricornutum</i> ) 2 - 6 leaf	110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	165 to 220 mL/ha + 330 to 440 mL/ha LVE MCPA 570
Bifora ( <i>Bifora testiculata</i> ) 2 - 5 leaf	110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	-
Bindweed/Black bindweed ( <i>Fallopia convolvulus</i> ) 2 - 6 leaf	2 - 4 leaf: 85 mL/ha + 265 mL/ha Bronco® 400  2 - 6 leaf: 110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	-
Capeweed ( <i>Arctotheca calendula</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 mL/ha + 220 mL/ha LVE MCPA 570 + 40 mL/ha Victory® 600
Corn gromwell ( <i>Buglossoides arvensis</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Dead nettle ( <i>Lamium amplexicaule</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	165 to 220 mL/ha + 330 to 440 mL/ha LVE MCPA 570
Doublegee/Spiny emex/ Three cornered Jack ( <i>Emex australis</i> ) 2 - 4 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	165 to 220 mL/ha + 330 to 440 mL/ha LVE MCPA 570
Fumitory ( <i>Fumaria densiflora</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Indian hedge mustard ( <i>Sisymbrium orientale</i> ) 2 - 8 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Paterson's curse ( <i>Echium plantagineum</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Prickly lettuce ( <i>Lactuca serriola</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Saffron thistle ( <i>Carthamus lanatus</i> ) 2 - 6 leaf	110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	-
Shepherd's purse ( <i>Capsella bursa-pastoris</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	-
Sow thistle/ Common sow thistle/ Milk thistle ( <i>Sonchus oleraceus</i> ) 2 - 8 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Turnip weed ( <i>Rapistrum rugosum</i> )	2 - 8 leaf: 85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	2 - 6 leaf: 110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Volunteer canola ( <i>Brassica napus</i> ) 2 - 8 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Volunteer chickpeas ( <i>Cicer arietinum</i> )	2 - 6 leaf: 85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	2 leaf - 5 node: 110 mL/ha + 220 mL/ha LVE MCPA 570 + 50 mL/ha Victory® 600
Volunteer faba bean ( <i>Vicia faba</i> ) 2 - 6 leaf, 2 leaf - 5 node or up to 3-node	2 - 6 leaf: 85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	2 leaf - 5 node: 110 mL/ha + 220 mL/ha LVE MCPA 570 + 40 mL/ha Victory® 600
Volunteer field peas ( <i>Pisum sativum</i> )	2 - 8 leaf: 110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	2 - 5 leaf: 110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570  2 leaf - 8 node: 110 mL/ha + 220 mL/ha LVE MCPA 570 + 50 mL/ha Victory® 600
Volunteer lentils ( <i>Lens culinaris</i> ) 2 - 6 leaf	<b>Suppression only:</b> 85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 mL/ha + 220 mL/ha LVE MCPA 570 + 40 mL/ha Victory® 600
Volunteer lupins ( <i>Lupinus species</i> ) 2 - 8 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Volunteer medic ( <i>Medicago spp.</i> )	2 - 6 leaf: 110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	2 - 4 leaf: 220 mL/ha + 440 mL/ha LVE MCPA 570 or  110 mL/ha + 220 mL/ha LVE MCPA 570 + 40 mL/ha Victory® 600
Volunteer seedling lucerne ( <i>Medicago sativa</i> ) 2 - 6 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	-
Volunteer sub-clover ( <i>Trifolium subterraneum</i> ) 2 - 6 leaf	-	110 mL/ha + 220 mL/ha LVE MCPA 570 + 75 mL/ha Victory® 600
Volunteer vetch ( <i>Vicia sativa</i> ) 2 - 6 leaf	<b>Suppression only:</b> 85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 mL/ha + 220 mL/ha LVE MCPA 570 + 75 mL/ha Victory® 600

WEEDS and WEED GROWTH STAGE	MARATHON® + Bronco® 400 MINIMUM APPLICATION RATES	MARATHON® + ADAMA LVE MCPA 570 MINIMUM APPLICATION RATES
Wild radish ( <i>Raphanus raphanistrum</i> ) 2 - 8 leaf	2 - 4 leaf: 85 to 110 mL/ha + 265 to 350 mL/ha Bronco® 400  Up to 6 leaf: 110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	2 - 4 leaf: 110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570  Up to 6 leaf: 165 to 220 mL/ha + 330 to 440 mL/ha LVE MCPA 570  Up to 8 leaf: 220 mL/ha + 440 mL/ha LVE MCPA 570
Wild turnip ( <i>Brassica tournefortii</i> ) 2 - 8 leaf	85 to 165 mL/ha + 265 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Wireweed ( <i>Polygonum aviculare</i> ) 2 - 6 leaf	110 to 165 mL/ha + 350 to 525 mL/ha Bronco® 400	110 to 220 mL/ha + 220 to 440 mL/ha LVE MCPA 570
Yellow burr weed ( <i>Amsinckia calycina</i> ) 2 - 6 leaf	100 to 165 mL/ha + 315 to 525 mL/ha Bronco® 400	165 to 220 mL/ha + 330 to 440 mL/ha LVE MCPA 570

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

**WITHHOLDING PERIODS:**

**HARVEST**

**WHEAT AND BARLEY: NOT REQUIRED WHEN USED AS DIRECTED.**

**GRAZING**

**WHEAT AND BARLEY: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.**

When using MARATHON® herbicide in a tank mix with another product/s, observe whichever product harvest or grazing withholding period is the longest.

**EXPORT OF TREATED PRODUCE**

Growers should note that MRLs or import tolerances DO NOT exist in all markets for produce treated with MARATHON® Herbicide. If you are growing produce for export, please consult your exporter for the latest information on MRLs and import tolerance before using MARATHON® Herbicide.

**GENERAL INSTRUCTIONS**

MARATHON® should always be applied with a recommended tank mix herbicide to ensure satisfactory weed efficacy and to assist with control of herbicide resistant weed populations. Results are best under good spraying conditions and application to weeds or crop under stress should be avoided.

Optimum performance of MARATHON® occurs when it is applied in warmer temperatures with good light intensity and good soil moisture. To maximise efficacy, apply MARATHON® during the day, at least 1 hour before sunset, particularly if followed by low overnight temperatures.

DO NOT apply to frost affected weeds or if frosts are imminent. Frost causes stress on weeds and could result in decreased weed control. To ensure optimum results

MARATHON® should only be applied once the weeds are no longer under stress from the frost conditions. The use of MARATHON® at higher rate may provide better control of weeds during frosty periods however, good control may not be obtained.

**MIXING**

MARATHON® Herbicide is an emulsifiable concentrate (EC) formulation. Always apply with a recommended adjuvant (see below).

1. Half fill the spray tank with clean water and start agitation.
2. Add any compatible granule products and mix thoroughly.
3. Add MARATHON® and other EC products and mix thoroughly.
4. Add remaining water.
5. Add adjuvant near the end of the filling process to minimize foaming.
6. Always maintain adequate agitation during application and use the tank mix promptly.

Mix only sufficient chemical for each day's use and avoid storing.

**ADJUVANT**

For the most consistent results, it's recommended to use 1 L/100 L of Hasten\* (or other registered high-quality blended methylated/ethylated seed oils e.g. Plantocrop\* or Kwickin\*). Alternatively, spray-grade ammonium sulphate can be added for effective weed control in tank mixtures with MARATHON® under ideal conditions. Please refer to the COMPATIBILITY GUIDE for adjuvants and tank mixtures that have been tested in field conditions.

**APPLICATION**

Ground-based application:

Use only low boom equipment set up to provide good coverage of weeds within the crop canopy. Apply in water volumes of 50 to 150 L/ha. High spray volumes are required for use in advanced weeds (greater than 4 leaf at time of application), heavy weed density causing shading of weeds or heavy crop canopy causing shading of weeds, as adequate coverage is critical to ensure control.

Aerial application:

Aircraft: DO NOT apply MARATHON® + Bronco® 400 using aircraft.

**MARATHON® + LVE MCPA 570:**

Apply in a minimum of 30 L water per hectare.

Effective weed control will only be achieved where good coverage of each weed leaf surface is achieved, on actively growing weeds. Weed size needs to be considered in conjunction with weed density. If an aerial application of MARATHON® is to be considered, then treat target weeds at the earliest possible growth stage.

The rate of MARATHON® should be increased up to a maximum to improve reliability when applying with aircraft. Use a recommended spray oil as the adjuvant when applying by aircraft.

DO NOT spray too high above the ground.

DO NOT apply MARATHON® + LVE MCPA 570 through a mister.

**Crop Safety**

Crop selectivity:

DO NOT apply to crops undersown with legumes or broadleaf pastures.

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

DO NOT apply tank mixtures of MARATHON® and MCPA to hay crops unless boom overlap growth reduction is accepted.

For optimum weed control and to minimise crop effect, spray application should occur to actively growing crops within the recommended crop growth stage of the Directions for Use table.

Some crop yellowing, bleaching, necrosis and reduction in crop biomass may occur within the first 2 to 5 weeks following spray application. Crop effects may be more visual under certain environmental stress conditions (e.g. wet, cold, dry, frost) or where crop health is negatively impacted due to disease, nutritional stress, insects, or prior herbicide applications. Crop injury may occur when dew is present at the time of application or when light rain occurs soon after application. Applications should not be made when the crop is under stress from very cold temperature, or when rain, dew or frost may occur prior to, at or immediately after application.

When applying in a tank mix with bromoxynil (e.g., Bronco® 400); ensure label recommendations are followed in regard to temperature at time of application to minimise crop effect. When applying in a tank mix with fungicides, minor crop bleaching may occur. This is only temporary and does not affect the crop biomass.

## COMPATIBILITY

MARATHON® is compatible with a range of Adama herbicides and other crop protection products. Always follow the correct mixing order. Refer to the MARATHON® physical compatibility guide and correct mixing order guide at adama.com before use.

## CROP ROTATION RECOMMENDATIONS

Minimum recropping intervals apply for all crops following application of MARATHON®. Recropping intervals are dependent on the rate of product applied. Areas that receive double rates (boom overlaps) may show symptoms of damage in sensitive crops. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations. For advice on crops not listed below, contact Adama Australia.

### Rainfall/irrigation - winter and summer recropping

For crops listed as requiring a minimum amount of rainfall or irrigation in combination with a set recropping interval - rainfall and irrigation totalling less than the stated amount in the tables below following use of MARATHON® may result in an extended recropping interval. Patchy rain, with extended dry periods, may also result in extended recropping intervals, even when rainfall exceeds the minimum stated. If in doubt, seek specialist advice.

### Dry conditions or less than the recommended minimum rainfall

MARATHON® breaks down by microbial degradation, which is favoured by warm, moist, aerobic soil. Where less than the minimum rain has fallen between application and planting the next year, it is recommended to only plant a cereal crop.

### pH

Application to soils with a pH greater than 8.4 (soil in water) has not been tested and is not recommended. Recropping symptoms are reduced on acid soils (pH <6.5 soil in water, pH <6.0 in CaCl<sub>2</sub>).

### Tank mixture with other herbicides

Observe the longer recropping interval of the tank mix products used for the relevant crop.

## Recropping Intervals - Winter Sown Crops

Crop - winter sown	MARATHON® rate applied	Minimum rainfall or irrigation required	Recropping interval
wheat, barley, oat, triticale	Up to 220 mL/ha	-	3 weeks
canola, clover*, chickpea, faba bean*, field pea, lentil*, lucerne, lupin, vetch	110 mL/ha	250 mm	9 months
<b>Alkaline or neutral soils -</b> canola, chickpea, field pea, lucerne, lupin, vetch	220 mL/ha**		
<b>Acid soils (pH &lt;6.5 in water, pH &lt;6.0 in CaCl<sub>2</sub>) -</b> canola, chickpea, clover, faba bean, field pea, lentil, lucerne, lupin, medic, vetch	220 mL/ha		
<b>Alkaline or neutral soils -</b> lentil, medic.	220 mL/ha <sup>f</sup>	500 mm	21 months
<sup>f</sup> Note, on soils with free limestone DO NOT use MARATHON® above 110 mL/ha unless substantial biomass reduction (medic) or discolouration (lentil, medic) is acceptable in areas of boom overlap.			

For winter recropping, transient biomass reduction or discolouration may occur where recropped following application of MARATHON®. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.

\* Where MARATHON® at 110 mL/ha is applied on alkaline soils, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage in crops such as clover, faba beans and lentil. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.

\*\* Where MARATHON® at 220 mL/ha is applied on alkaline soils, recropping areas that received double rates (boom overlaps) may show increased symptoms of damage in crops such as canola, field pea, lentil, lupin, medic and vetch. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.

## Recropping Intervals - Summer Sown Crops

Crop - summer sown	MARATHON® rate applied	Minimum rainfall or irrigation required	Recropping interval
maize, sorghum	Up to 220 mL/ha	-	8 weeks
cotton, soybean, sunflower	Up to 110 mL/ha	300 mm	14 months
mung bean	Up to 220 mL/ha***		
cotton, soybean, sunflower	Up to 220 mL/ha***	500 mm	

For summer recropping, transient biomass reduction or discolouration may occur where recropped after application of MARATHON®. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.

\*\*\*Where MARATHON® is applied at 220 mL/ha, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction in some situations.

## Sprayer Clean-up

The sprayer must be thoroughly cleaned before being reused to spray crops other than winter cereals.

Cleaning procedure: Ensure that the following operation is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained.

Fill the boom tank with water, rinse and repeat this procedure (i.e. fill and rinse the tank twice) then remove and clean all filters (inline and nozzle) separately. A boom cleaner should be used in this process to provide an effective cleaning technique. This should be done immediately after spraying is finished to prevent dried residues adhering to the tank/lines/filters. Refer to the product labels of tank mix products for appropriate cleaning instructions for those products.

## RESISTANT WEEDS WARNING

MARATHON® Herbicide is a member of the Pyrazolone group of herbicides. MARATHON® has the inhibition of 4-hydroxyphenylpyruvate dioxygenase (4-HPPD) mode of action. For weed resistance management MARATHON® is a Group 27 herbicide. Some naturally occurring weed biotypes resistant to MARATHON® and other Group 27 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 MARATHON® or other Group 27 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

GROUP **27** HERBICIDE

Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or Adama representative.

## RE-ENTRY

DO NOT enter treated areas until the spray has dried, unless wearing 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

Highly toxic to algae and aquatic plants. DO NOT contaminate streams, rivers or watercourses with this product or used containers.

## STORAGE AND DISPOSAL

### Storage for all containers:

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

## DISPOSAL

### Recycled containers:

This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple 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 deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

### For Refillable containers:

**60 L and 110 L:** DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please contact Schutz on 03 9360 9291 to arrange collection.

**1000 L:** Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia should be advised immediately. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and contact Schutz on 03 9360 9291 to arrange collection. No other liquid, solid or pesticide product should be put into it.

## SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the skin. Will damage the eyes. Avoid contact with eyes and skin. When using together with other products, consult their label safety directions. When opening the container and preparing product for use, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, elbow-length chemical resistant gloves and goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). 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. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, wash out immediately with water.

## SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for MARATHON® Herbicide is available from [adama.com](http://adama.com) or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of MARATHON® Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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\*Other trade marks.

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