

CAUTION

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

Pentagon[®] 400 WG Herbicide



ADAMA
ESSENTIALS

ACTIVE CONSTITUENT: 400 g/kg TRALKOXYDIM

GROUP A HERBICIDE

For the control of wild oats and annual ryegrass and suppression of annual phalaris in wheat, barley, rye and triticale as specified in the Directions for Use table.

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CONTENTS: 5 kg, 10 kg, 20 kg, 25 kg, 50 kg

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply to weeds or crops under stress due to severe frost, drought, water logging, low soil fertility, pre-emergent herbicides, insects or diseases.
 DO NOT use boomless jets or misters.
 DO NOT apply if rain is expected within a half-hour.

CROP	WEEDS CONTROLLED	WEED STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Wheat, Barley, Rye, Triticale	Wild Oats	Growing actively at 2-4 leaf (pre-tillering)	Qld, NSW, Vic, Tas, SA only	300 g ^l	Apply in first 4-6 weeks to unstressed crops and weeds when the majority of crop plants have 2 leaves. Application to lush crops may increase likelihood of yellowing and/or growth retardation.
				380 g ^l	Apply in first 4-6 weeks to unstressed crops and weeds when the majority of crop plants have 3 leaves. This is the minimum rate if tank mixing with listed broadleaf herbicides.
				430 g ^l	Apply in first 4-6 weeks when the majority of crop plants have 3 leaves. Use this rate under dry soil conditions or if applying during August onwards. Addition of a paraffinic oil spray tank adjuvant at the recommended label rates may improve weed control under these conditions.
		500 g ^l	Use where application is delayed. DO NOT apply to pre-tillered crops. Addition of a paraffinic oil spray tank adjuvant at the recommended label rates may improve weed control if soil is dry or if applying during August onwards.		
Wild Oats and Annual Ryegrass in mixed infestations		Growing actively at 2-4 leaf (pre-tillering)	NSW, Vic, Tas, SA only	380 g ^l	Use when Wild Oats predominate. DO NOT apply to crops with less than 3 leaves. Addition of a paraffinic oil spray tank adjuvant at the recommended label rates may improve weed control if soil is dry or if applying during August onwards.
		Growing actively up to early tillering (Maximum of 2 tillers)		500 g ^l	DO NOT apply to pre-tillered crops. Addition of a paraffinic oil spray tank adjuvant at the recommended label rates may improve weed control if soils is dry or if applying during August onwards.
		Growing actively at 2-4 leaf (pre-tillering)		380-500 g ^l	DO NOT apply to tillered Ryegrass. Use spray volumes of 70-100 L/ha may assist control. Tank mixes of the lower rate with listed broadleaved herbicides may reduce Ryegrass control.

CROP	WEEDS CONTROLLED	WEED STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Wheat, Barley, Rye, Triticale – <i>continued</i>	Annual Phalaris (suppression only of Paradoxa Grass, Lesser Canary Grass)	Growing actively at 2-4 leaf (pre-tillering)	NSW, Vic, Tas, SA only	380-500 g [†]	Preferably apply within 6 weeks of sowing when weeds are at the 2 to 4 leaf stage and growing actively. DO NOT apply to tillered Annual Phalaris. The higher rate may give more reliable results. Use of spray volumes of 70-100 L/ha may assist control. Tank mixes with listed broadleaved herbicides may reduce Annual Phalaris control. Paradoxa Grass is more sensitive than Lesser Canary Grass. DO NOT apply to crops with less than 3 leaves.
Wheat, Barley (except Moondyne Yagan), Rye, Triticale	Wild Oats	Growing actively at 2-4 leaf (pre- tillering)	WA only	250 g [†]	Apply in first 4-6 weeks to unstressed crops and weeds when the majority of crop plants are at growth stage Z12. Application to lush crops may increase likelihood of yellowing and/or growth retardation.
		Growing actively up to early tillering (Maximum of 2 tillers)		380 g [†]	Use where application is delayed and the majority of crop plants are at growth stage Z13. This is the preferred rate for dense Wild Oat populations. Use this rate if tank mixing with listed broadleaf herbicides.
	Wild Oats and	Growing actively up to early tillering (Maximum of 2 tillers)		380 g [†]	Use when Wild Oats predominate. Apply when the majority of crop plants are at growth stage Z13.
	Annual Ryegrass in mixed infestations	Growing actively at 2-4 leaf (pre- tillering)			DO NOT apply to tillered Ryegrass. Use of higher spray volumes may assist control. Tank mixes with listed broadleaved herbicides may reduce Ryegrass control.

† ALWAYS ADD A PARAFFINIC OIL SPRAY TANK ADJUVANT AT THE RECOMMENDED LABEL RATES.

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

WITHHOLDING PERIOD:

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

GENERAL INSTRUCTIONS

RESISTANCE WEEDS WARNING

PENTAGON 400 WG Herbicide is a member of **GROUP A HERBICIDE** the cyclohexanediones group of herbicides. For weed resistance management PENTAGON 400 WG is a Group A herbicide. Some naturally occurring weed biotypes resistant to PENTAGON 400 WG 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 PENTAGON 400 WG and other Group A herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of PENTAGON 400 WG to control resistant weeds.

MIXING

Only use sprayers in good working condition with high capacity agitation. Ensure the sprayer is cleaned according to the label instructions on the product used prior to PENTAGON 400 WG. Use only clean water for the spray solution. Ensure that all in-line strainer and nozzle screens in the sprayer are 100 mesh or coarser. DO NOT use cartridge or disc filters after the spray tank outlet, or have two (or more) filters directly after each other anywhere in the system. Begin to fill spray tank with clean water, and engage agitator. Agitation must be continued throughout the entire mixing and spraying procedure.

When the sprayer is half full of water, add PENTAGON 400 WG slowly to the spray tank through the tank opening or through a hopper designed to handle granules. The hopper should be dry before adding PENTAGON 400 WG granules.

- DO NOT premix PENTAGON 400 WG.
- Add the total required amount of PENTAGON 400 WG from all cartons first, prior to adding other herbicides or a paraffinic oil spray tank adjuvant.
- Wait at least one minute after the last of the PENTAGON 400 WG has been added to the tank to allow for complete dispersion of the granules.
- Add the recommended broadleaf weed herbicide or insecticide next if tank mixing.
- Slowly add a paraffinic oil spray tank adjuvant to the tank last, in at least 10 times its volume of water especially where a suction (filling) probe or hopper is used.
- Continue to fill tank to desired level with water.

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Pentagon 400 WG Herbicide PAGE 2 OF 3

SPRAYING INSTRUCTIONS

Ground Equipment

Apply in a spray volume of 50-150 litres of water per hectare at a pressure of 250-350 kPa to ensure proper dispersion and spraying characteristics of the PENTAGON 400 WG spray mix.

Use flat fan nozzles such as Spraying Systems 110-01, 10-015, 110-02 or equivalent sizes from other manufacturers. DO NOT use 110-03 or bigger nozzles with PENTAGON 400 WG. DO NOT use floodjet nozzles, boomless jets or misters or controlled droplet application equipment. Nozzles may be angled forward 45° to enhance penetration of the crop and provide better coverage.

Always ensure that agitation is continued until spraying is completed even if stopped for brief periods of time. If the agitation is stopped for more than 5 minutes re-suspend the spray solution by running on full agitation until the settled particles are fully re-suspended, prior to spraying. The spray mixtures of PENTAGON 400 WG and a paraffinic oil spray tank adjuvant may be left overnight without loss of efficacy provided the settled product is completely re-suspended by stirring and/or agitation prior to re-use.

Aerial equipment

Apply through boom or Micronair units in 20-30 litres of water per hectare. The use of the higher volume is preferred due to more reliable results. Droplet size should be 200-250 microns (VMD) and swath width should not be wider than recommended for type of plane and application unit. Weed control following aerial application may not be as good as from ground application.

CROP SAFETY

If PENTAGON 400 WG is applied to stressed crops or treatment is followed by stress or if crop plants have less than 2 true leaves (Z12), yellowing or growth retardation may occur. Crops normally recover without loss in yield. Avoid double spraying (overlap).

PLANTBACK PERIODS: DO NOT plant sorghum, maize or rice for a period of four weeks after application of PENTAGON 400 WG. Allow at least 10 days between application of PENTAGON 400 WG and any other herbicide, except Lynx® WG for which the interval should be 14 days after PENTAGON 400 WG. Allow at least 10 days between application of PENTAGON 400 WG and any fertilizer treatment.

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COMPATIBILITY

For broadleaved weed control, PENTAGON 400 WG may be mixed in the following table:

STATE	PENTAGON 400 WG mL/ha	CO-HERBICIDE MAXIMUM L/ha	RATE per ha
Qld, NSW, Vic, SA only	380-500 g	Bronco® MA	1.0-1.4 L
		LVE MCPA	0.5/1.0 L
		Legacy® MA (mixture may cause temporary chlorosis)	0.8 L
		Victory®	0.3 L
		metosulam (714 g/kg)	7g
WA only	380 g	Bronco® MA	1.0 L
		LVE MCPA Note restriction on Kulin	0.5* L
		Legacy® MA (mixture may cause temporary chlorosis)	0.8 L
		Victory®	0.3 L
		metosulam (714 g/kg)	7 g

DO NOT mix PENTAGON 400 WG with 2,4-D, MCPA amine, CUTLASS® 500 or Lynx® WG. Allow at least 10 days between application of PENTAGON 400 WG and herbicides containing 2,4-D, MCPA amine, dicamba or similar actives. Allow at least 14 days between application of PENTAGON 400 WG and Lynx® WG. PENTAGON 400 WG should be applied prior to the broadleaved herbicides.

Insecticides

PENTAGON 400 WG is compatible with the emulsifiable formulations of the insecticides:

Hellfire®, Scud Elite®, phosmet, lambda-cyhalothrin and Dimethoate 400.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Moderately hazardous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated locked room or place and away from children, animals, food, feedstuffs, seed and fertilizers. DO NOT store for prolonged periods in direct sunlight. Single rinse before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty bags 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 bags and product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes. If the product in eyes wash, wash it out immediately with water. When preparing the spray wear face shield and goggles. Wash hands after use. After each day's use wash face shield and goggles.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre on 131126.

MSDS

Additional information is listed in the material safety data sheet (MSDS).

A material safety data sheet for PENTAGON 400 WG is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of PENTAGON 400 WG Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd. 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 Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

* Registered trademarks of ADAMA Agricultural Solutions Ltd Company
† Other trademarks

NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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Batch No.

Date of Manufacture