

CAUTION

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

Tackle[®] WG Herbicide

ACTIVE CONSTITUENT: 750 g/kg CHLORSULFURON

GROUP **B** HERBICIDE

For the control of annual ryegrass, paradoxa grass and certain broadleaf weeds in cereal crops as specified in the Directions for Use table.



ADAMA
ESSENTIALS

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NET CONTENTS: 1 kg

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT store TACKLE WG whilst in suspension for more than 2 days or significant breakdown will occur.

DO NOT store tank mixes of TACKLE WG and other products for more than 24 hours to avoid possible product breakdown.

DO NOT spray weeds for post emergent control if rainfall is expected within 4 hours.

DO NOT apply to plants suffering stress.

CROP/ SITUATION	WEEDS CONTROLLED	STATE	RATE g/ha			CRITICAL COMMENTS
			SOIL TYPE			
			Light to Medium	Heavy		
			SOIL pH			
Less than 7	7-8.5	8.5 or less				
Wheat and Triticale only	Annual Ryegrass (Wimmera Ryegrass)	NSW, Vic, SA, WA only	20	15 or 20*	20	*If paddock history suggests a high weed population, use the higher rate. Note: Refer to General Instructions for optimum application timing and conditions.

CROP/ SITUATION	WEEDS CONTROLLED	STATE	RATE g/ha	CRITICAL COMMENTS
Wheat and Triticale (Continued)	Fumitory, Shepherds Purse	NSW, Vic, Tas, SA, WA only	15 or 20	If paddock history suggests a high weed population, use the higher rate.
	Wireweed/Hogweed, Deadnettle	All States		
	Rough Poppy	NSW, Tas, SA, WA only		
	Stemless Thistle	SA only		
	Soursob (<i>Oxalis pes caprae</i>)	NSW, Vic, SA only	15	Apply only to soils with pH of 7.5 or above. Apply following the emergence of the majority of weeds and leave the soil undisturbed for 1 to 4 weeks prior to cultivation or sowing. Early post emergence applications give the most effective and reliable control.
	Capeweed	NSW, Vic, Tas, SA, WA only	20	On acid soils of pH 5.5 or less in wet years this product will give shorter period of residual control.

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE g/ha	CRITICAL COMMENTS		
Wheat and Triticale (continued)	Paradoxa Grass	Qld, Nth NSW (soil pH >7.5) only	20	Apply to dry soils prior to sowing rain. Incorporation before sowing rain is not necessary.		
	Black Bindweed	Qld only				
	Annual Phalaris	NSW only	20 + 640 mL/ha Trilogy® 600	Spray and incorporate into the soil in one operation, if possible. If not, incorporation should occur within 4 hours of spraying or weed control may be reduced.		
	Barley Grass	NSW, Tas only				
	Silver Grass	Tas only				
	Indian Hedge Mustard	All States	15	Note: Refer to General Instructions for optimum timing and conditions.		
	Wild Turnip, Mouse-ear Chickweed, Paterson's Curse (Salvation Jane)	NSW, Vic, Tas, SA, WA only				
	Yellow Burweed/ Amsinckia	NSW, Vic, SA, WA only				
	Charlock	Vic, Tas, SA only				
	King Island, Melilot	Vic, SA only				
	Storksbill (Wild Geranium)	Vic, Tas, SA, WA only				
	Pimpernels	NSW, Vic, Tas, SA only				
	Lincoln Weed, Common Iceplant, Ball Mustard	SA only				
	Turnip Weed	Qld, SA only				
	Guildford Grass (Onion Grass)	Vic, SA, WA only				
	Loosestrife	Vic only				
	Corn Gromwell (Sheepweed, White Ironweed)	Qld, NSW, Vic, SA, WA only			20	Gives suppression only if population is 20 plants/m or less.
	Three Cornered Jack, Doublegee (Spiny Emex)	NSW, Vic, SA, WA only				
	Docks	NSW, Vic, Tas, SA, WA only				
	Fat-Hen	NSW, Tas only				
	Cape Tulip	Vic, SA, WA only				
	Spear Thistle, Slender Thistle	Tas only				
	Prickly Lettuce (Whip Thistle), Tree Hogweed	Vic, SA only				
	Saffron Thistle (Suppression Only)	Qld, NSW, Vic, Tas, SA only				
	Bromegrass (Suppression Only)	NSW, Vic, Tas, SA, WA only				
	New Zealand Spinach	Qld only				
	Mintweed, Saltbush, African Turnip Weed, Slender Celery	Qld, NSW only				

METHOD OF USE: POST CROP AND WEED EMERGENCE

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE g/ha			CRITICAL COMMENTS
			SOIL TYPE			
			Light to Medium		Heavy	
			SOIL pH			
			Less than 7	7-8.5	8.5 or less	
Wheat, Barley, Oats, Triticale and Cereal Rye	Annual Ryegrass (Wimmera)	NSW, Vic, SA, WA only	20 or 25*	15 or 20*	20 or 25*	*Use the higher rate under heavy weed pressure. Apply no later than the 3 leaf stage of Annual Ryegrass. Application of this product to Annual Ryegrass 2 leaf or greater with water volumes less than 50 L/ha may result in reduced efficacy.

METHOD OF USE: POST CROP AND WEED EMERGENCE (continued)

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE g/ha	CRITICAL COMMENTS
Wheat, Barley, Oats, Triticale and Cereal Rye	Corn Gromwell (Sheepweed, White Ironweed)	NSW, Vic, SA, WA only	20	Apply from the cotyledon to 2 leaf stage of the weed. If applied later suppression only will occur.
	Black Bindweed (Climbing Buckwheat)	Qld, NSW only		Apply from the cotyledon to 2 leaf stage of the weed.
	Hoary Cress	Vic, Tas, SA only		Apply when weeds have fully emerged.
	Wireweed/Hogweed	All States		Note: Refer to General Instructions for optimum application timing and conditions.
	Denseflower Fumitory (<i>Fumaria densiflora</i>)	NSW, Vic, Tas, SA, WA only		Apply at cotyledon to 2 leaf stage.
	Wild Radish	All States	15 or 20	For Annual Ryegrass, Wild Radish and Deadnettle the heavier rate should be used under heavy weed pressure. For Wild Radish a second spray with a suitable herbicide may have to be applied to control later germinations. Note: Refer to General Instructions for optimum application timing and conditions.
	Deadnettle	Qld, NSW, Vic, SA only		
	Mustards	All States	15	
	Wild Turnip, Paterson's Curse (Salvation Jane)	NSW, Vic, Tas, SA, WA only		
	Yellow Burrweed (Amsinckia)	NSW, Vic, SA, WA only		
	Docks, Storksbill (Wild Geranium)	Vic, Tas, SA, WA only		
	Turnip Weed	Qld, NSW, SA only		
	Mouse-ear Chickweed	NSW, Vic, Tas, SA, WA only		
	Charlock, Pimpernels	NSW, Vic, Tas, SA only		
	Ball Mustard	SA only		
	Guildford Grass (Onion Grass)	Vic, SA, WA only		
	Soursob (<i>Oxalis pes-caprae</i>)	NSW, Vic, SA, WA only		
	Rough Poppy	NSW, Tas, SA, WA only	20	Apply at cotyledon to 4 leaf stage.
	Mintweed, Saltbush, African Turnip Weed, Slender Celery	Qld, NSW only		
	Staggerweed	Qld, NSW, Tas, WA only		
Shepherd's Purse	NSW, Vic, Tas, SA, WA only			
Prickly Lettuce (Whip Thistle)	Vic, Tas only			
Fat Hen	NSW, Tas only			
Lincoln Weed	SA only			
Tree Hogweed	Vic only			
Cape Tulip	Vic, SA, WA only			
New Zealand Spinach	Qld only			
Spear Thistle	Tas only	25		
Matricaria	Tas, WA only			
Bifora (Carrot Weed)	SA only			
Stemless Thistle	Vic only			

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

TACKLE® WG Herbicide is a systemic herbicide which acts by inhibiting cell division and growth in the tips of roots and shoots of sensitive plants.

- Careful consideration should be given to soil pH prior to using TACKLE WG. As the pH of soil increases the rate of product breakdown decreases. TACKLE WG is not recommended for use on soils with pH of 8.6 or higher as soil residual activity could adversely affect following crops and crop rotation options may be extended beyond normal intervals. TACKLE WG is intended for use on soils with pH of 8.5 or lower.
- Crops other than wheat, barley, oats, triticale and cereal rye can be particularly sensitive to very low concentrations of TACKLE WG in the soil. See crop rotation recommendations. Best weed control is obtained when rainfall or sprinkler irrigation wets the soil to a depth of 5 to 7.5 cm within 4 hours of application.

PRE-SOWING INCORPORATED BY SOWING

WA ONLY: Avoid applying to dry, sandy soils. Rapid leaching is possible with early season rainfall.

SA ONLY: Seek further advice prior to using rates above 15 g/ha on lighter soils with a pH of 7-8.5.

CONVENTIONALLY SOWN CROPS:

On soils with pH less than 7 application should occur just before sowing or with the actual sowing operation. On soils with pH above 7 timing the application just prior to sowing isn't as critical. Spray onto a non-ridged surface absent of large clods and use low profile 10 cm combine points for sowing.

- Ensure sowing operation is done at a speed of 10 kph or more.
- Use a light set of covering harrows with the sowing operation.
- If spray is applied to dry soil and sowing will be delayed, incorporate immediately after spraying to prevent losses from wind erosion.

DIRECT DRILLED CROPS

Apply tank mixed with either:

1. Paraquat or Paraquat mixes or,
2. Wipe-Out® 450 or other glyphosate 450 g/L product in accordance with manufacturer's label and specifications.

POST CROP AND WEED EMERGENCE

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

Wheat, Triticale and Cereal Rye – apply after crop emergence when weeds are small and actively growing (Annual Ryegrass no more than 3 leaves, Zadok's Code 13); Broadleaved weeds no more than 5 cm in height or diameter (for Black Bindweed refer to specific recommendations).

Barley and Oats – apply between 2 leaf stage of crop (3 leaf stage – SA only) and early tillering when weeds are small and actively growing (Annual Ryegrass no more than 3 leaves, Zodaks Code 13); Broadleaved weeds no more than 5 cm in height or diameter (for Black Bindweed refer to specific recommendations).

ALL CROPS: DO NOT use more than once each season in any one crop.

RESISTANT WEEDS WARNING

TACKLE® WG Herbicide is a member of

GROUP B HERBICIDE

the sulfonyleurea group of herbicides. TACKLE WG has the inhibitor of the enzyme acetolactate synthase (ALS) mode of action. For weed resistance management TACKLE WG is a Group B herbicide.

Some naturally occurring weed biotypes resistant to TACKLE WG and other Group B herbicides (including Annual Ryegrass and some broadleaf weeds) are known to exist. They can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by TACKLE WG or other Group B herbicides.

Annual Ryegrass biotypes resistant to diclofop-methyl and other "grass specific" herbicides are often also resistant to TACKLE WG. Before using TACKLE WG on a population resistant to "grass specific" herbicides, have a resistance test conducted to ensure that it is still susceptible to TACKLE WG.

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 a failure of TACKLE WG to control resistant weeds.

To prevent, or at least minimise the risk of resistant weeds occurring, use TACKLE WG, in tank mixes (if appropriate), and/or rotations with herbicides having different modes of action effective on the same weed species. 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 make more than one application of Group B herbicide to a crop, either pre-sowing incorporated by sowing or post crop and weed emergence.

If the user suspects that a Group B resistant weed is present. TACKLE WG or other Group B herbicides should not be used.

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 Adama representative.

GRAZING ADVICE

- A nil withholding period for grazing TACKLE WG treated areas is applicable.
- Avoid grazing TACKLE WG treated areas within 24 hours of application to optimise weed control.

CROP SAFETY

- DO NOT apply TACKLE WG to crops or weeds that are under stress from 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 or poor weed control may result. When application is followed by severe stress (such as drought, prolonged cold, waterlogging or frosty conditions) some crop yellowing and growth retardation may occur. Crops normally recover without a loss in yield. Disease, nematode or insect damage following treatment may also result in crop injury.
- DO NOT use in cereals undersown with legume pasture crops, e.g. medics, clovers.
- DO NOT use on furrow or flood irrigated cereals.
- DO NOT apply TACKLE WG to light sandy ridges on soils low in organic matter as crop injury may occur.
- DO NOT apply other sulfonyleurea herbicides following the use of TACKLE WG.
- The use of TACKLE WG on cereal varieties sown out of season may result in some yield suppression under stressed conditions (eg. aluminium/manganese toxicity, water logging, frost, etc).

Barley/Oats

- DO NOT apply TACKLE WG prior to the two leaf stage (Zadok's code 12) of the crop (3 leaf stage in SA only - Zadok's code 13).
- Reduced Barley yields may result from the use of TACKLE WG under waterlogged conditions but failure to spray under these conditions may result in even higher yield loss through weed competition and weed seed carryover.
- DO NOT apply to Stirling Barley.

Wheat

- DO NOT apply to the Milling or Cranbrook varieties.
- TACKLE WG may be used on Kulin on soils which are well drained, with adequate nutrient status (including trace elements), with low disease, nematode and insect damage potential and where soil pH is 5.5-7.5 (1:5, soil: water suspension method).
- Where TACKLE WG is used outside the above conditions then crop injury and/or reduced yield may result. Increased stem breakage may also occur.
- DO NOT apply to the Avocet and Durati varieties by the pre-sowing incorporated by sowing method of application.
- DO NOT apply to the Banks variety on soils of pH 5.5 or less by the pre-sowing incorporated by sowing application method.
- Vulcan variety may suffer some yield reduction on acid soils, particularly under stressed conditions (e.g. aluminium/manganese toxicity, waterlogging, frosts, etc.).

CROP ROTATION RECOMMENDATIONS

- Soils previously treated with TACKLE WG should not be rotated to crops other than those listed in the following tables.
- Crop tolerance (grown through to maturity) should be tested on small scale strips before sowing larger areas. TACKLE WG treated soils may be sown to any of the crops listed but only after the intervals indicated have been observed.

THE FOLLOWING TABLE APPLIES TO ALL STATES

MINIMUM INTERVAL FOR RECROPPING (IN MONTHS FROM APPLICATION)						
Soil pH*	0	3	6	9	12	18
6.5 or less	Triticale, Wheat	Cereal Rye	Oats	Barley	Subterranean Clover**, Faba Beans, Field Peas, Linseed, Lucerne, Lupins, Medics**, Safflower, Canola and associated Oilseed Rape	Maize, Sorghum, Soybeans, Sunflower

THE FOLLOWING TABLES APPLY SPECIFICALLY TO QLD, SA, WA AND TAS ONLY:

MINIMUM INTERVAL FOR RECROPPING (IN MONTHS FROM APPLICATION)						
Rainfall Requirement	0	3	9	15	18	22
	Minimum of 700 mm					
Soil pH 6.6-7.5	Triticale, Wheat	Cereal Rye	Barley, Oats	Millets (Japanese, Panicum and White French), Maize, Sorghum and Sunflower	Cotton, Soybeans	Faba Beans, Field Peas, Linseed, Subterranean Clover**, Medics**, Canola, Safflower

MINIMUM INTERVAL FOR RECROPPING (IN MONTHS FROM APPLICATION)					
Rainfall Requirement	0	15	18	24 MONTHS OR MORE	
	Minimum of 700 mm				
Soil pH 7.6-8.5	Triticale, Wheat	Millets (Japanese, Panicum and White French), Maize, Sorghum and Sunflowers		Barley, Oats and Cereal Rye	Rotate to crops other than Cereals (such as listed above) only if field test strip of the planned rotational crop has been successfully grown through to maturity in the previous season.
8.6 and above	TACKLE WG IS NOT RECOMMENDED FOR USE ON SOILS OF pH 8.6 AND ABOVE				

THE FOLLOWING TABLES REFER SPECIFICALLY TO NSW & VIC ONLY:

MINIMUM INTERVAL FOR RECROPPING (IN MONTHS FROM APPLICATION)					
Soil pH*	0	3	9	22	26
6.6-7.5	Triticale, Wheat	Cereal Rye	Barley, Oats	Subterranean Clover**, Faba Beans, Field Peas, Linseed, Lucerne, Lupins, Medics**, Canola, Safflower	Maize, Sorghum, Soybeans, Sunflower

MINIMUM INTERVAL FOR RECROPPING (IN MONTHS FROM APPLICATION)			
Soil pH*	0	18	24 MONTHS OR MORE
7.6-8.5	Triticale, Wheat	Barley, Oats, Cereal Rye	Rotate to crops other than Cereals (such as listed above) only if field test strip of the planned rotational crop has been successfully grown through to maturity in the previous season.
8.6 and above	TACKLE WG IS NOT RECOMMENDED FOR USE ON SOILS OF pH 8.6 AND ABOVE		

* The pH of a soil is determined by laboratory analysis using the 1:5, soil:water suspension method.

** The natural regeneration of subterranean clover and medics is included.

- Any soil previously treated with TACKLE WG should not be rotated to crops other than those listed above in the tables.
- The tolerance of alternate crops (grown through to maturity) should be tested in strips before sowing on a large scale.

MIXING

TACKLE WG is a water dispersible granule to be mixed with water and applied as a spray. To incorporate this product into the spray tank adhere to the following recommendations:

1. Partially fill the spray vat with water.
2. Add the required amount of product.
3. Ensure agitation system is fully engaged.
4. Top up with the correct volume of water.
5. In tank mixes always ensure TACKLE WG is put in suspension before other compatible products.
6. When spray solutions have been allowed to stand in the spray tank for long periods thoroughly re-agitate before using.

USE OF SURFACTANT/WETTING AGENT

Always add a non ionic surfactant (1000 g/L) at 100 mL/100 L of spray volume (0.1% volume/volume), for post emergence application only.

Crop oils are not recommended for use.

Note: DO NOT add surfactant when tank mixing TACKLE WG with another product which already has a surfactant in its formulation.

GROUND SPRAYING EQUIPMENT

Use a boom spray properly calibrated to a constant speed and delivery rate to ensure thorough and even coverage from a uniform spray pattern. Overlapping should be avoided. Cut off booms whilst starting, when turning slowly or when stopping or crop injury may result. Apply in a minimum of 30 L prepared spray/ha.

AERIAL APPLICATION

Apply in a minimum of 20 L/ha of water. Avoid spraying in still conditions and in winds likely to cause spray drift onto sensitive crops or to where sensitive crops are to be sown. See crop rotation recommendations. Turn sprays off when crossing over any waterways.

SPRAYER CLEAN-UP

The following cleaning process must be followed to ensure subsequent injury is avoided in crops other than wheat, triticale, barley, oats and cereal rye. All traces of TACKLE WG must be removed immediately after spraying in the following manner:

1. Drain and flush the tank, boom and hoses with clean water for at least ten minutes.
2. Fill the tank with clean water and add household chlorine bleach (4% chlorine) at 300 mL/100 L of water. Flush through the boom and hoses and allow to agitate for 15 minutes then drain. Repeat this process.
3. Remove and clean nozzles, screens and filters separately.
4. Repeat step 1 to remove traces of chlorine bleach.

CAUTION: DO NOT use chlorine bleach in conjunction with ammonia. Failure to remove all traces of liquid fertilisers containing ammonia, ammonium nitrate or ammonium sulphate from the mixing and application equipment will release a gas with a musty chlorine odour when mixed with chlorine bleach which may irritate the eyes, nose, throat and lungs. DO NOT clean equipment in closed areas.

COMPATIBILITY

TACKLE WG can be tank mixed with paraquat and glyphosate. This product is compatible with the wild oats herbicides Avadex BW[®] and Matavan[®]. TACKLE WG can also be tank mixed with Bromoxynil, MCPA, 2,4-D Amine and 2,4-D Ester. This product is also compatible with Trifluralin. This product is compatible with the EC formulations of the insecticides omethoate, dimethoate, deltamethrin, fenvalerate and chlorpyrifos. DO NOT add additional wetting agents when tank mixing TACKLE WG with a product containing wetting agent in the formulation.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

The following points must be observed to prevent the possible injury or loss of desirable trees or vegetation:

DO NOT apply or drain or flush spray equipment on, near or within root range of desirable trees or plants or in locations where the chemical wash may run or move within contact range of the roots.

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, CRUSTACEANS 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 cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Dispose of at 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.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. DO NOT inhale spray mist. Wash hands after use.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TACKLE WG is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of TACKLE[®] 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 from the use of this product.

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

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Batch No.

Date of Manufacture