

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Axial[®] 100 EC

Selective Herbicide

syngenta[®]

ACTIVE CONSTITUENTS: 100 g/L PINOXADEN
25 g/L CLOQUINTOCET-MEXYL
SOLVENT: 559 g/L LIQUID HYDROCARBONS

GROUP	A	HERBICIDE
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For the control of key grass weeds and selective spray topping of Wild Oats in Wheat and Barley

Syngenta Crop Protection Pty Limited
Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113

In a transport emergency dial 000, Police or Fire Brigade
For specialist advice in an emergency only, call 1800 033 111 (24 hours)

APVMA Approval No: 59024/51502

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DIRECTIONS FOR USE

Restraints

DO NOT apply if rainfall is expected within 30 minutes

DO NOT apply to weeds under stress from factors including very dry, waterlogged, cold, frosty conditions, nutrient deficiency or the use of pre-emergent herbicides

Crop	Weed/Situation	State	Rate/ha	Critical Comments
Barley, Wheat 2 leaf to flag leaf (GS12-39)	Canary Grass (<i>Phalaris minor</i>), Paradoxa Grass (<i>Phalaris paradoxa</i>) (Annual phalaris) 2 leaf to end of tillering (GS12-29)	All States	200 to 250 mL plus 500 mL ADIGOR® Spray Adjuvant/ 100 L water	DO NOT apply more than once per crop. Rate selection: Use the lower rate when weeds are actively growing without stress, small in size and of low density. Use the higher rate when growing conditions are not ideal and weeds are under minor stress, larger in size or in high density. Low level or minor stress can be caused by factors including dry conditions, waterlogging, cold or nutrient deficiency, providing they are not severe or of prolonged duration. Mixtures: Apply in mixtures for broadleaf weed control only when weeds are actively growing. Mixing with some broadleaf weed herbicides can result in a reduction in grass weed control. Use the higher rate of AXIAL when applying mixtures. Resistance management: DO NOT make more than 1 application of a Group A herbicide to a crop in the same season. For suspected Group A resistant populations refer to the Resistant Weeds Warning.
	Wild Oats (Black Oats) (<i>Avena</i> spp) 2 leaf to end of tillering (GS12-29)	Sth NSW, Vic, Tas, SA, WA only	150 to 200 mL plus 500 mL ADIGOR/100 L water	
		Qld, Nth NSW only	200 mL plus 500 mL ADIGOR/100 L water	
Selective spray topping of Wild Oats (Black Oats) (<i>Avena</i> spp) (GS30-47) to reduce panicle numbers and/or weed seed viability	All States		DO NOT apply later than the flag leaf fully emerged stage (GS39) of the crop. Application Timing: Apply AXIAL when the majority of Wild Oats are at the stem elongation stage, up to and including when the flag leaf sheath is just at opening stage (GS30-47). Applications during early stem elongation will provide good control and are most effective in reducing panicle numbers but are less effective in reducing the viability of any weed seed produced. Applications at and beyond the flag leaf fully emerged stage (GS39) will reduce weed seed viability and contribution of seed to the weed seed bank. Carefully monitor weed growth stage to ensure optimum timing of herbicide application and always consider the range in weed growth stages present at application. Late germinating weeds not present at application, will not be controlled. Mixtures: Apply in mixtures for broadleaf weed control only when weeds are actively growing. Mixing with some broadleaf weed herbicides can result in a reduction in product efficacy. Resistance management: For suspected Group A resistant populations refer to Resistant Weeds Warning.	

Crop	Weed/Situation	State	Rate/ha	Critical Comments
Barley, Wheat 2 leaf to flag leaf (GS12-39) <i>continued</i>	Suppression of Annual Ryegrass (<i>Lolium rigidium</i>) 2 leaf to early tillering (GS12-22)	All States	250 to 300 mL plus 500 mL ADIGOR/100 L water	DO NOT apply more than once per crop. To get best results apply only to actively growing Annual Ryegrass until the start of tillering. DO NOT apply under poor growing conditions or to weeds under stress. Rate selection: Use the lower rates when weed density is light and weeds are small in size. Use the higher rate when weed density is moderate and weed size is large. Preferably apply in a program with a pre-emergent herbicide and avoid applying Group A herbicides to high densities of Annual Ryegrass. Mixtures: Mixing with some broadleaf herbicides may reduce Annual Ryegrass control. Use the higher rate of AXIAL when applying mixtures. Resistance management: DO NOT make more than 1 application of a Group A herbicide to a crop in the same season. For suspected Group A resistant populations refer to the Resistant Weeds Warning.

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

WITHHOLDING PERIODS

Barley, Wheat: Harvest: **NOT REQUIRED WHEN USED AS DIRECTED**

Grazing: **DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 21 DAYS AFTER APPLICATION**

LIVESTOCK EXPORT INTERVAL (EI): Not required when AXIAL is used as directed

GENERAL INSTRUCTIONS

AXIAL should be applied to weeds that are actively growing. Weeds under stress are more difficult to control. Under the influence of low level stresses weeds may still be controlled, but a higher rate of AXIAL is required. As stress becomes more severe weed control may fail. Stress can be caused by a range of factors including, dry conditions, waterlogging, cold or nutrient deficiency.

Mixing

Thoroughly clean the sprayer prior to use. For appropriate cleaning instructions, refer to the label of the product sprayed previously.

Fill the spray tank to half full with clean water. Start agitation. Add AXIAL by pouring it into the stream of incoming water and continue filling. Add the required amount of ADIGOR just before the tank is full and continue agitation.

Mixing Order: Some products may react with other products if they are not mixed in the correct order. The general mixing order of products should be:

1. Water conditioners or buffers
2. Water dispersable granules (WG)
3. Wettable powders (WP)
4. Flowable or suspension concentrates (SC)
5. Emulsifiable concentrates (EC)
6. Water based or soluble concentrates
7. ADIGOR

It is important to ensure that each individual component of the tank mix is fully dissolved and in solution before the next product is added to the tank mix, otherwise mixing problems may occur.

Application

Ground Application: Ensure thorough spray coverage of the target weed is obtained. Apply using 50 to 100 L of water/ha using a nozzle delivering a medium spray quality in accordance with the ASABE S572 Standard or BCPC Guideline. Spray volumes towards the higher end of the recommended range should be used for dense weed populations, where larger droplet sizes are used or when targeting annual ryegrass.

Aerial Application: Apply using a minimum of 20 L water/ha and spray at 2 to 3 m above the crop. Use a nozzle delivering a medium spray quality in accordance with the ASABE S572 Standard or BCPC Guideline. Avoid applying if wind speeds are greater than 18 km/hour. For aerial application use ADIGOR at 500 mL/ha

Compatibility

When AXIAL is applied alone or with other compatible products always use ADIGOR. AXIAL is compatible with most common broadleaf herbicides. As formulations of other manufacturers' products are beyond the control of Syngenta, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

Weed Control: Some products, including broadleaf herbicides, can result in reduced grass weed control when applied with AXIAL. For the latest information on compatibility of AXIAL with broadleaf herbicides refer to the AXIAL compatibility chart available from your local reseller, Syngenta Territory Manager, Syngenta website www.syngenta.com.au, or technical advice line Freecall 1800 067 108.

Crop Injury: Some products can result in crop yellowing or crop injury when applied with crop oils including ADIGOR. Refer to the label of mixing partners to determine if they can be used with crop oils. For example, Brodal*, Paragon*, Sniper* and Tigrex* may cause crop injury when used with crop oils including ADIGOR.

If necessary, to avoid reduced grass weed control or crop injury, apply AXIAL first and then allow at least 10 days between its application and application of other product.

Cleaning Spray Equipment

After using AXIAL, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

Rinse: After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontaminate: Before spraying cereals (except wheat or barley), maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Drain and repeat the rinsing procedure. Then quarter fill the tank and add a liquid alkali detergent (eg SURF*, OMO*, DRIVE*) at 0.5 L/100 L water and circulate throughout the system for at least 15 minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Dispose of all water used for cleaning in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots.

Resistant Weeds Warning

GROUP	A	HERBICIDE
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AXIAL 100 EC Selective Herbicide has the inhibition of fat (lipid) synthesis, (or inhibitors of acetyl CoA carboxylase) mode of action. For weed resistance management AXIAL is a Group A herbicide. Some naturally occurring weed biotypes resistant to AXIAL 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 AXIAL or other Group A herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Crop Protection accepts no liability for any losses that may result from the failure of Axial to control resistant weeds.

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the surviving weeds. DO NOT make more than 1 application of a Group A herbicide with the inhibition of fat (lipid) synthesis (or inhibitors of acetyl-CoA carboxylase) mode of action to a crop in the same season. If the user suspects that the target weed population is resistant to herbicides with this mode of action, AXIAL or other Group A herbicides should not be used.

Strategies to minimise the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local Syngenta Crop Protection representative for details.

PRECAUTIONS

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

Re-entry Period: DO NOT allow entry into treated areas until the spray has dried unless wearing cotton overalls (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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. 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 clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal 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 it 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.

SAFETY DIRECTIONS

Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When opening the container and preparing spray wear:

- cotton overalls buttoned to the neck and wrist
- a washable hat
- elbow-length PVC gloves
- goggles
- disposable fume mask covering mouth and nose

If product on skin, immediately wash the area with soap and water. If product in eyes, wash it out immediately with water. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required, refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling, and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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