

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

AXIAL[®]

100 EC SELECTIVE HERBICIDE

Active Constituents: 100 g/L PINOXADEN
25 g/L CLOQUINTOCET- MEXYL

Solvent: 559 g/L LIQUID HYDROCARBONS

For the control of key grass weeds in Wheat and Barley

GROUP A HERBICIDE

APVMA Approval No: 59024/5/0506 Pack size: 5 L

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.

Resistant Weeds Warning

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.

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 good spray coverage is obtained. Apply using a minimum of 50 L of water/ha. Ideal droplet size is 200 to 300 microns VMD, to achieve a fine to medium spray quality.

Aerial application: Apply using a minimum of 20 L water/ha and spray at 2 to 3 m above the crop. Ideal is a medium spray quality, droplet size is 250 to 350 microns VMD. Avoid applying if wind speeds are greater than 18 km/hr. 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.

To 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.

To 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.

(continued)



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 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.

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.

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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DIRECTIONS FOR USE

Restrains: 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	Weeds	State	Rate/ha	Critical Comments
Barley, Wheat 2 leaf to flag leaf (GS 12-39)	Canary Grass (<i>Phalaris minor</i>), Paradoxa Grass (<i>Phalaris paradoxa</i>) (Annual phalaris) 2 leaf to end of tillering (GS 12-29)	All States	200 to 250 mL plus 500 mL ADIGOR®/ 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 (GS 12-29)	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	
	Suppression of Annual Ryegrass (<i>Lolium rigidum</i>) 2 leaf to early tillering (GS 12-22)	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

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ADIGOR®

SPRAY ADJUVANT

Active Constituent: 440 g/L METHYL ESTERS OF CANOLA OIL FATTY ACIDS

Solvent: 222 g/L LIQUID HYDROCARBONS

To assist in the performance of AXIAL® 100 EC Selective Herbicide and other crop protection products

APVMA Approval No: 60114/5/0306 Pack size: 5 L

GENERAL INSTRUCTIONS

ADIGOR is a blend of surfactant and methylated canola oil required for use with AXIAL. ADIGOR improves the reliability of weed control. ADIGOR is also suitable for use as a spray adjuvant with a range of crop protection products including Flowable Gesaprim® 600 SC Liquid Herbicide, Gesaprim® Granules 900 WG Herbicide, Logran® 750 WG Selective Herbicide, Logran® B-Power Herbicide and Topik® 240 EC Selective Herbicide according to recommendations on the specific crop protection products labels.

Important: Prior to use, read all directions on this label and on the label of the crop protection product being used. Any specific usage or restriction on the crop protection product label has precedence over directions for use referred to on this label.

Mixing

Follow the directions on the label of the crop protection product being used.

Thoroughly clean the sprayer prior to and following 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 the crop protection product 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. Ensure spray solution is applied as soon as possible after mixing.

Compatibility

ADIGOR can be applied in combination with a range of crop protection products. However, some products can result in crop yellowing or crop injury when applied with crop oils including ADIGOR. Always 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. For the latest information on compatibility of ADIGOR, refer to your local reseller, Syngenta Territory Manager, Syngenta website www.syngenta.com.au or technical advice line Freecall 1800 067 108.

ADIGOR is compatible with the following products, always refer to the specific product labels for detailed instructions.

Product	ADIGOR Rate/100 L spray volume	Comments
AXIAL	500 mL	Refer to AXIAL label
Gesaprim 600 SC	500 mL to 1 L	For post-emergent use in TT-Canola
Gesaprim Granules		
Logran 750 WG	1 L	Refer to Logran label
Logran B-Power	500 mL	For all applications where Logran B-Power is used
Topik		Refer to Topik label

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Keep out of reach of children. 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 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.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. When using the product wear:

- cotton overalls buttoned to the neck and wrist (or equivalent clothing)
- elbow-length PVC gloves
- goggles

When using with other chemicals consult their Safety Directions.

FIRST AID

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DIRECTIONS FOR USE

When using with AXIAL, add to spray tank at the rate of 500 mL/100 L water. If using low water volumes (50 L water/ha or less) use a minimum of 250 mL ADIGOR/ha. For aerial applications use 500 mL ADIGOR/ha.

When using with other crop protection products, refer to specific product label for the recommended rate.

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