

PEEL HERE

# CAUTION

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



**ACTIVE CONSTITUENTS: 420 g/L MCPA present as potassium salt  
26 g/L PICLORAM present as potassium salt**

**GROUP I HERBICIDE**

For the control of climbing buckwheat, common sowthistle, skeleton weed, capeweed, doublegee and other broadleaf weeds in winter cereals and linseed crops.

**IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT**

### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.  
Do not store near food, feedstuffs, fertilisers or seed.  
Triple or preferably pressure rinse container 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 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 container or product.

For **110 L, 1000L refillable containers** empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### SMALL SPILL MANAGEMENT

Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as described above.

### SAFETY DIRECTIONS

Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. Repeated exposure may cause allergic disorders. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and 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 Australia: 13 1126.

### SAFETY DATA SHEET

For further information refer to the Safety Data Sheet which is available from the supplier.

### LIMIT OF WARRANTY AND LIABILITY

Axichem Pty Ltd warrants that this material conforms to the chemical description on the label. As the use of product sold is beyond the control of Axichem Pty Ltd, no responsibility whatsoever for any consequences is accepted in respect of this product, save those non-excludable conditions implied by any State and Federal legislation or law of a Territory. Not for repackaging or reformulations. No licence under any non-Australian patent is granted or implied by purchase of this container.

APVMA Approval No: 80798/101673

Batch Number:

Date of Manufacture:

**IN A TRANSPORT EMERGENCY  
DIAL 000  
POLICE OR FIRE BRIGADE**

**FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY  
CALL 1800 039 008  
ALL STATES AUSTRALIA WIDE**



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**AxiChem**

## DIRECTIONS FOR USE

### RESTRAINTS:

**DO NOT** apply to crops or weeds which are not actively growing or to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected) or previous herbicide treatment, as crop damage or reduced levels of control may result.

**DO NOT** use in high winds.

**DO NOT** spray if rain is likely to occur within four hours.

**DO NOT** apply close to, or on areas, containing roots of desirable vegetation, where treated soil may be washed into areas growing, or to be planted to, desirable plants, or on sites where surface water from heavy rain can be expected to run off to areas containing, or to be planted to, susceptible crops or plants.

**DO NOT** move soil which may have been sprayed to areas where desirable plants are to be grown.

**Table 1: NEW SOUTH WALES and QUEENSLAND only**

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE / ha	CRITICAL COMMENTS
Barley, Canary grass, Oats, Triticale, Wheat	Apply from early tillering (when the main shoot has 4-5 leaves and 2 or more new tillers have formed) to start of jointing (first node (Z30)).	Climbing buckwheat (black bindweed)	Up to 6 leaf	1L	For best control of climbing buckwheat apply at early tillering as this weed becomes difficult to control as it becomes larger To avoid possible crop damage, <b>DO NOT</b> spray outside the early tillering to early jointing stage
		Common sowthistle, Doublegee (spiny emex) Mustard Saffron thistle Skeleton weed Turnip weed Variegated thistle Wild radish Wild turnip	Young rosette or seedling plants up to 8 true leaves		
		N.Z. Spinach <sup>1</sup> Wireweed <sup>1</sup>	Up to 4 leaf		<sup>1</sup> Suppression only – Spray early
Barley, Triticale, Wheat		Common sowthistle, N.Z. Spinach Wireweed	Apply up to 4 leaf stage	800 mL + 5g metsulfuron 600 Herbicide	Add a 100% concentrate non-ionic surfactant (eg BS-1000) at the rate of 100 mL/100L water.

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE / ha	CRITICAL COMMENTS
Linseed Linola	Apply when crop is 8-20 cm high	Climbing buckwheat (black bindweed) Doublegee (spiny emex) Mustard Saffron thistle Skeleton weed Variegated thistle Wild radish Wild turnip	Young rosette or seedling plants up to 4 true leaves	670 to 840 mL	Use the higher rate when climbing buckwheat is present or weed growth is advanced.  <sup>1</sup> Suppression only – Spray early
		N.Z. Spinach <sup>1</sup> Wireweed <sup>1</sup>	Up to 2 leaf		

**Table 2: WESTERN AUSTRALIA ONLY**

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE / ha	CRITICAL COMMENTS
Barley, Canary grass, Oats, Triticale, Wheat	Apply from 3 leaf to early tillering (when the main shoot has 4-5 leaves and 2 or more new tillers have formed) to start of jointing (first node (Z30))	Capeweed Doublegee Saffron thistle Turnip weed Wild mustard Wild turnip	Young rosette or seedling plants up to 4 true leaves	600 mL	To avoid possible crop damage <b>DO NOT</b> spray outside the early tillering to early jointing stage. Caution: DO NOT use this product where the land to be treated will be sown to lupins or peas the following year or where a volunteer medic or subclover pasture is required in the following season. Only use when a cereal crop will follow the cereal crop to be treated.
		Capeweed Doublegee Saffron thistle Turnip weed Wild mustard Wild turnip	Young rosette or seedling plants up to 6 true leaves	750 mL	
		Wireweed <sup>1</sup>	Up to 4 leaf		
	Apply from early to mid-tillering	Docks Sorrel	Active growth	1L	

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

**WITHHOLDING PERIOD:**

**DO NOT GRAZE OR CUT CROPS OR PASTURES FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.**

**HARVEST: NOT REQUIRED WHEN USED AS DIRECTED**

## GENERAL INSTRUCTIONS

### MIXING

AC Ruffle Herbicide can be mixed with water only.

Mix only sufficient chemical for each days use and avoid storing mix.

Half fill the spray tank with water and add the required quantity of AC Ruffle Herbicide and complete filling. Agitate continuously to ensure thorough mixing before and during application.

Tank mixtures: Wettable powder or dry flowable formulations (e.g. water dispersible granules) should be added to the spray tank first, followed by suspension concentrates (flowables), water soluble salts and then emulsifiable concentrate formulations (e.g. Fluroxypyr 200). Add spraying oils and surfactants (wetters) last, if required.

### COMPATIBILITY

AC Ruffle Herbicide is compatible with the following:

(Read and follow all label directions, restraints, plant-back periods, withholding periods and safety directions on the partner label as well as those on the AC Ruffle Herbicide label).

#### Broadleaf Herbicides

Eclipse Herbicide	clopyralid 300 Herbicide	MCPA amine	MCPA LVE
metsulfuron 600 Herbicide	fluroxypyr 200 Herbicide	2,4-D amine	

#### Grass Herbicides

diclofop methyl (annual ryegrass only)

Topik 240EC Herbicide (wild oats and phalaris only).

#### Adjuvants

BS-1000 (when mixed with metsulfuron 600)

Uptake Spraying Oil (when mixed with Topik 240EC)

#### Insecticides

Omethoate

Dimethoate 300g/L EC

AC Ruffle Herbicide is not compatible with zinc products (such as Zinc dextrose and Zinc heptahydrate), copper salts (such as sulphate) and manganese sulphate. Do not use with hard water or water clarified with alum.

## APPLICATION METHODS

### A. Ground Application (Boom)

- Apply AC Ruffle Herbicide with an accurately calibrated boom sprayer, in at least 50L/ha water.
- Flat fan nozzles are recommended using pressures in the range 200 to 300kPa.
- Set the boom at a height to ensure a double overlap of the nozzle pattern.

### B. Aerial Application

- Apply in a minimum volume of 35L/ha water
- Use equipment calibrated to produce droplets with an average diameter (Volume Mean Diameter) of 200-250 microns.
- DO NOT apply when the temperature is above 30°C, when there is no wind or when the wind is blowing towards susceptible crops.

## CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from desirable plants and water courses.

- **Rinsing:** After using AC Ruffle Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain, and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Decontamination (before spraying cotton and other sensitive crops; see PROTECTION OF CROPS): wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (e.g. liquid SURF, OMO, or DRIVE ) at 500g/100L of water or the powder equivalent at 500g/100L and circulate through 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.

### MINIMUM RECROPPING PERIODS

Picloram, one of the active constituents in this product, remains active in the soil for extended periods depending on rate of application, soil type, rainfall, temperature, humidity, soil moisture and soil organic matter.

**DO NOT** plant susceptible broadleaf crops within 12 months of applying the product. Cereal crops and grasses can be sown safely after using AC Ruffle Herbicide in crop weed control.

### RESISTANT WEEDS WARNING

#### Mode of Action

GROUP	I	HERBICIDE
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AC Ruffle Herbicide is a member of the pyridines and phenoxy group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group I herbicide.

Some naturally-occurring weed biotypes resistant to the product and other Group I 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 this product or other Group I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Axichem Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

**DO NOT** use on land to be cultivated for growing susceptible crops within 12 months of applying AC Ruffle Herbicide. Legumes, vines, vegetables, cotton, tomatoes, ornamentals and many other plants are highly susceptible to this herbicide during both growing and dormant periods. Cereal crops and grasses can be sown safely after using AC Ruffle Herbicide.

This product will kill legumes (clovers, medics) present in the crop at the time of spraying. In the season following application of this product the regeneration or establishment of sensitive legumes (clover, medics, peas, lupins) may be adversely affected by soil residues.

Cereals crops may be reduced in height following use of this product. This height reduction is a normal response and does not represent any yield loss.

**DO NOT** allow spray to drift onto susceptible crops, such as cotton, tomatoes, vines, fruit, potatoes, vegetables, ornamentals, tobacco, lupins and other legumes, safflower, sugar beet, hops, flowers or shade trees.

**DO NOT** apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plant/crops, cropping lands or pastures.

**DO NOT** apply close to or on areas containing roots of desirable vegetation, where treated soil may be washed to areas growing, or to be planted to desirable plants, or on sites where surface water from heavy rain can be expected to run off to areas containing or to be planted to susceptible crops or plants.

**DO NOT** move soil which may have been sprayed to areas where desirable plants are to be grown.

**DO NOT** apply AC Ruffle Herbicide to crops or pastures, which are to be used for the production of compost or mulches for use with susceptible crops or plants. The use of straw, hay or other plant material treated with AC Ruffle Herbicide for composting or mulching susceptible crops may damage these crops.

### **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.

Do not store near food, feedstuffs, fertilisers or seed.

Triple or preferably pressure rinse container 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 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 container or product.

For **110 L, 1000L refillable containers** empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

### **SMALL SPILL MANAGEMENT**

Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as described above.

### **SAFETY DIRECTIONS**

Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. Repeated exposure may cause allergic disorders. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and 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 Australia.: 13 1126.

### **SAFETY DATA SHEET**

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**LABEL ELEMENTS**
**GHS Label Elements**

**SIGNAL WORD** **DANGER**
**Hazard Statement(s)**

<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage
<b>H332</b>	Harmful if inhaled.
<b>H351</b>	Suspected of causing cancer.

**Precautionary statement(s) Prevention**

<b>P201</b>	Obtain special instructions before use.
<b>P271</b>	Use only outdoor or in a well-ventilated area.
<b>P280</b>	Wear protective gloves, protective clothing, eye protection and face protection.
<b>P261</b>	Avoid breathing mist/vapours/spray.
<b>P264</b>	Wash all exposed external body areas thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.

**Precautionary statement(s) Response**

<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P310</b>	Immediately call a POISON CENTER or doctor/physician/first aider.
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTRE/doctor/physician/first aider if you feel unwell.
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P330</b>	Rinse mouth.

<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
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<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.
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**Precautionary statement(s) Storage**

<b>P405</b>	Store locked up.
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**Precautionary statement(s) Disposal**

<b>P501</b>	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with ay local regulation.
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