

CAUTION

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

Towelup* MCPA Herbicide

ACTIVE CONSTITUENTS:

420g/L MCPA present as potassium salt
26g/L PICLORAM present as potassium salt

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

APVMA Approval No: 59973 / 1008

Important: Read this leaflet before using this product



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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, DO NOT 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		
Barley, Triticale, Wheat		N.Z. Spinach ¹ Wireweed ¹	Up to 4 leaf	800 mL + 5g Metsun 600 (600g/kg)	¹ Suppression only – Spray early. Add a 100% concentrate non-ionic surfactant (e.g. BS-1000) at the rate of 100mL/100L water.
		Common sowthistle, N.Z. Spinach Wireweed	Apply up to 4 leaf stage		

Table 1: NEW SOUTH WALES and QUEENSLAND ONLY ... (Cont.)

Crop	Crop Growth Stage	Weeds Controlled	Weed Growth Stage	Rate / ha	Critical Comments
Linseed Linola	Apply when crop is 8 -20cm 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 840mL	Use the higher rate when climbing buckwheat is present or weed growth is advanced.
					¹ Suppression only – Spray early.

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	600mL	To avoid possible crop damage DO NOT 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	750mL	
		Wireweed ¹	Up to 4 leaf		¹ Suppression only – Spray early.
	Apply from early to mid-tillering	Docks Sorrel	Active growth	1L	

NOT 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.

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 Towelup MCPA Herbicide in crop weed control.

GENERAL INSTRUCTIONS

MIXING

Towelup MCPA Herbicide can be mixed with water only.

Mix only sufficient chemical for each day's use and avoid storing mix.

Half fill the spray tank with water and add the required quantity of Towelup MCPA 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 (wettors) last, if required.

COMPATIBILITY

Towelup MCPA 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 Towelup MCPA Herbicide label.)

Broadleaf Herbicides

Eclipse Herbicide

MCPA Amine

Metsun 600

2,4-D Amine

Clopyralid 300 Herbicide

MCPA LVE

Fluroxypyr 200 Herbicide

Grass Herbicides

Diclofop methyl (annual ryegrass only)

Topik 240EC Herbicide (wild oats and phalaris only)

Adjuvants

BS-1000 (when mixed with Metsun 600)

Uptake Spraying Oil (when mixed with Clethodim 240EC)

Insecticides

Omethoate

Dimethoate 300g/L EC

Towelup MCPA 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 Towelup MCPA 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 Towelup MCPA 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.

RESISTANT WEEDS WARNING

Mode of Action

GROUP	I	HERBICIDE
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Towelup MCPA 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, Grow Choice 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 Towelup MCPA 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 Towelup MCPA 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 Towelup MCPA 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 Towelup MCPA 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 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.

For **110L 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 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet which is available from the supplier.

NOTICE TO BUYER

Grow Choice Pty. Ltd. will not be held liable for any loss, injury or damage, indirect or consequential, arising from the sale, supply, use or application of this product. The product is not to be used for any purpose or in any way contrary to label instructions.