Product Name: MacPhersons CHLORTHAL 900 WG Herbicide

APVMA Approval No: 81334/135695



MacPhersons CHLORTHAL 900 WG Herbicide
CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
900 g/kg CHLORTHAL DIMETHYL
GROUP 3 HERBICIDE
For pre-emergence weed control in certain vegetable crops including: - Onions, Beans, Cabbages, Cauliflowers, Potatoes, Carrots and for weed control in Strawberries, Cotton, Lawns and Ornamentals as specified in the Directions for Use table.
2 kg - 20 kg
This section contains file attachment.
HARVEST - NOT REQUIRED WHEN USED AS DIRECTED GRAZING - DO NOT GRAZE ANY TREATED AREAS OR CUT FOR STOCK FOOD

Trade Advice: General Instructions: This section contains file attachment. Resistance Warning: RESISTANT WEEDS WARNING: GROUP 3 HERBICIDE MacPhersons CHLORTHAL 900WG is a member of the Benzoic acid group of herbicides. This product has the inhibitors of tubulin formation mode of action. For weed resistance management, the product is a Group 3 herbicide. Some naturally occurring weed biotypes resistant to this product and other inhibitors of tubulin formation 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 inhibitors of tubulin formation herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, RONIC International Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds. Precautions: 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 LIVESTOCK, WILDLIFE, FISH, CRUSTACEAN AND ENVIRONMENT: Do NOT contaminate streams, rivers or watercourses with the chemical or used containers.
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Storage and Disposal: Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.
Shake and empty contents into spray tank. Do not dispose of undiluted chemicals on site. Break, crush, or puncture and deliver empty packaging 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 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 containers or product.

Safety	Directions:
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Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. When opening the container and preparing spray, wear cotton overalls, buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves, goggles and disposable dust, mist or fume face mask covering mouth and nose. If applying by hand wear cotton overalls, over normal clothing, buttoned to the neck and wrist elbow-length chemical resistant gloves and disposable dust, mist or fume face mask covering mouth and nose. After each day's use, wash gloves, goggles and contaminated clothing.

First Aid Instructions:

If poisoning occurs, contact a doctor, or Poisons Information Centre (Phone Australia 131126, New Zealand 0800 764 766. If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

First Aid Warnings:

DIRECTIONS FOR USE

CROP	WEEDS CONTROLLE	ED .	Rate/ HA	Critical Comments
Cabbage,	Annual sedge	Cyperus spp.	5 - 12.5 kg	Spray at time of seeding.
Broccoli,	Barnyard grass	Echinochloa spp.		Use lower rate on lighter
Brussels	Black bindweed	Polygonum convolvulus		soils
Sprouts,	Climbing Buckwheat	. c., genam com en arac		
Cauliflower	Blackberry Nightshade	Solanum nigrum		
Beans, Snap	Blue Pimpernel	Anagallis avrensis var.		
Beans,	Bide i imperiler	caerulea		
Mung	Caltran	Triblus terrestris		
Beans,	Caltrop			
Soybeans,	Canary grass	Phalaris canariensis		
Caster	Cape gooseberries	Physalis spp.		
Beans	Cape weed	Arctotheca calendula		
Peas	Chickweed	Stellaria media		Spray at time of seeding.
	Columbus grass	Sorghum almum		Use lower rate on lighter
- ·	Corn spurry	Spergula arvensis		soils.
Turnips,	Crowfoot grass	Eleusine indica		Spray at time of seeding.
Radish,	Crabgrass	Digitaria sanguinalis		Use lower rate on lighter
Collards,	Crowfoot, Storksbill	Erodium spp		soils
Kale	Dandelion	Taraxacum officinale		
Mustard, Greens,	Deadnettle	Lamium amplexicaule		
Turnips	Docks	Rumex spp.		
(greens and	Dodder	Cuscuta spp.		
roots)	Fat-hen	Chenopodium album		
Onions,	Fescues	Festuca spp.		Spray at time of seeding
Garlic	Giant pigweed	Trianthenna		or transplanting
Carno	Clarit pigweed			Can be sprayed directly
	O A	portulacastrum		over transplants,
	Green Amaranth	Amaranthus viridis		Lay-by applications can
	Heliotrope	Heliotropium europaeum		be made on onions up to
	Innocent Weed,	Cenchrus tribuloides		14 weeks after planting or
	Sand burr			transplanting. Should
	Johnson grass	Sorghum halepense		weeds emerge, weed or
	Kidney weed	Dichondra repens		cultivate prior to spraying.
Potatoes	Love grasses	Eragrostis spp.		Spray at planting, drag-off
	Mexican clover	Richardia brasiliensis		or lay-by
Sweet	Mossman River grass	Cenchrus echinatus		Spray at transplanting.
Potatoes,	Mouse-ear chickweed	Cerastium glomeratum		Lay-by applications can
Yams	Petty spurge	Euporbia peplus		be made up to 6 weeks
	Pheasants Eye	Adonis microcarpa		after transplanting.
Carrots	Pigeon grass	Setaria spp.	9 - 12.5 kg	Spray at planting. Use
	Pigweed, Neverdie	Portulaca oleracea		lower rate on lighter soils.
Strawberries	Prickly paddy melon	Cucmis	7.5 - 11 kg	Apply at transplanting.
(new	only paddy molon	myriocarpus		Use lower rate on lighter
planting's)	Prince of Wales Feather	-		soils.
Strawberries		Rhynchelytrum repens		Apply in autumn and early
(established	Red Natal grass	Knyncheiyaani repens		spring. Do NOT apply
planting's)				after first bloom. Can be
				sprayed over plants
				without injury.

CROP	WEEDS CONTROLL	ED	Rate/ HA	Critical Comments
Lawns (established Ornamentals)	Wales Feather Ribgrass, Lamb's tongu Rolypoly, Buckbush Ryegrass Salvation Jane, Paterson's curse Scarlet Pimpernel Sow thistle, Milk thistle Spiny Burr grass Spiny emex, Three cornered jack, Doublegee Stagger weed Stinging nettle Summer grass Toadflax	Salsola kali Lolium spp. Echium plantagineum Anagallis arvensis Sonchus oleraceus Cenchurs pauciflorus Emex australis Stachys arvenis Utica urens Digitana ciliaris Kikxia Trass Urochloa panicoides Carrichtera annua Nicandra physalodes	5 – 12.5kg	Apply at time of planting. Use higher rate for areas under irrigation. Lay-by application can be made at 6 -11 kg/ha after bolls open. Apply autumn and early spring to prevent winter grass and crab grass from germinating. Do NOT use on Carnations, Geum, Mesembryanthemum, Pansy, Phlox. Sweet William or Telanthera. DO NOT use on bent grass lawns.

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

GENERAL INSTRUCTIONS

Spray before weed seeds germinate. For best results cultivate and seed or plant, and then spray and water-in on the same day. DO NOT apply more than 3 days after cultivation. If weeds have emerged the crop should be weeded or cultivated and watered prior to application. The quantity applied can be reduced by spraying strips over the crop, and using cultivation or other herbicides between the rows. The lower rate is effective on lighter soils depending on weeds to be controlled and period of control required whereas the higher rate is recommended for heavier soil types or if soil incorporation is required.

SOIL PREPARATION

Soil should be moist to the surface at the time of application. Soil must be thoroughly prepared to a fine even tilth, free of or low in trash. Seed or transplant within 24 hours of final cultivation. Spray immediately after seeding, transplanting or lay-by cultivation. Use sprinkler irrigation immediately after spraying or furrow irrigation until soil is wet. If rain is unlikely and sprinkler irrigation unavailable, shallow soil incorporation may improve effectiveness. DO NOT incorporate more than 2.5 cm deep.

Cultivation will reduce effectiveness and should be avoided for as long as possible after application.

MIXING

Mix the required quantity thoroughly with water and add to spray tank with agitation. Maintain agitation during spraying. Use 450 litres or more of water per hectare.

WEEDS NOT CONTROLLED

Some weed species are not effectively controlled by **MacPhersons CHLORTHAL 900WG**. In many cases these specific weeds are highly susceptible to other herbicides and can be selectively controlled with these in some crops. Known species that are not controlled by **MacPhersons CHLORTHAL 900WG** include Galinsoga (Potato weed). Mustard, Clover, Bathurst Burr, Fumitory, Wild Oats and Nut grass. The following list is a more detailed list:

Common Name	Botanical Name	Common Name	Botanical Name
Annual ragweed	Ambrosia artemisiifolia	Noogoora burr	Xanthium pungens
Bathurst burr	Xanthium spinosum	Pepper cress	Lepidium spp.
Bellvine	lpomoea plebeia	Potato weed	Galinsoga parviflora
Bitter cress, Lesser	Coronopus didymus	Prairie grass	Bromus unioloides
swine cress	•	Prickly lettuce	Lactuca serriola
Bladder Ketmia	Hibiscus trionum	Shepherds purse	Capsell bursa-pastoris
Blue billygoat weed	Ageratum houstonianum	Slender celery	Apium leptophyllum
Charlock	Sinapis arvensis	Spear thistle	Cirsium vulgare
Cobblers pegs	Bindens pilosa	Starr burr	Acanthospennum
Common cotula	Cotula australis		hispidum
Fumitories	Fumaria spp.	Stinking Roger	Tagetes minuta
Hairy Jo-Jo	Solvia anthemifolia	Tares, Vetch	Vicia spp.
Indian Mustard	Brassica juncea	Thornapples	Da tura spp.
Loosestrife	Lythrum spp.	Townsville lucerne	Stylosanthes humilis
Marshmallow	Malva spp.	Turnip weed	Rapistrum rugosum
Medics	Medicago spp.	Variegated thistle	Silybum marianum
Mexican poppy	Argemone mexicana	Wild Oats	Avena fatua
Mexican tea	Chenopodium arnbrosioides	Wild radish	Raphanus raphanistrum
Mint weed	Salvia refiexa	Wild Turnip	Brassica toumefortii
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CROP PLANT BACK:

DO NOT plant crops other than those on the label within 8 months of application. If replanting is required because of an early crop failure the planting of onions or potatoes may result in crop injury. However, all crops on this label may be planted following harvest of a crop treated with **MacPhersons CHLORTHAL 900WG**.

CROP SAFETY:

Applied according to directions and under conditions favourable for good plant growth **MacPhersons CHLORTHAL 900WG** will not harm crops for which its use is recommended. However, conditions such as high salt concentration, seedling diseases, cold weather, deep planting, excessive moisture or drought may injure or weaken crops normally tolerant to **MacPhersons CHLORTHAL 900WG**, thereby increasing the possibility of herbicide damage. Under any of these conditions, one or more of the following may result: delayed crop development, reduced yields or reduced quality.

MacPhersons CHLORTHAL 900WG is recommended for use in the following deciduous and evergreen trees & shrubs, ground cover plants and herbaceous and flowering ornamental plants. The tolerance of all species, cultivars or varieties of ornamentals has not been determined therefore it is advisable to test crop safety on a small area first.

MacPhersons CHLORTHAL 900WG can be Safely used in the following Ornamental Plants:

Abelia (*Abelia*) Ageratum (*Ageratum*) Alyssum (*Alyssum*, *Lobularia*) Andromeda - Japanese (*Pieris*)

Arborvitae (*Thuja*) Ash (*Franxinus*) Aster (*Aster*) Azalea (*Azalea*)

Baby's Breath (Gypsophila)

Barberry (*Berberis*)
Bellflower (*Campanula*)

Birch (Betula)
Bleedingheart (Dicentra)
Bloodleaf (Iresine)
Boxwood (Buxus)
Bugloss (Anchusa)
Camellia (Camellia)
Candytufts (Iberis)
Chestnut (Castanea)
Chrysanthemum
(Chrysanthemum)
Cinquefoil (Potentilla)

Columbine (Aquilegia)

Coleus (Coleus)

Coneflower – purple (*Echinacea*) Coreopsis (*Coreopsis*) Coral Bells (*Heuchera*)

Cosmos (Cosmos)
Cotoneaster (Cotoneaster)
Cottonwood (Populus)
Crab apple (Pyrus)
Cuphea (Cupphea)

Cypress (Cupressus, Taxodium)

Dahlia (*Dahlia*)

Delphinium (*Delphinium*) Deutzia (*Deutzia*) Dogwood (*Cornus*) Elaeagnus (*Elaeagnus*)

Elm (Ulmus)

Euonymus (Euonymus)
Evening primrose (Oenothera)
Feverfew (Chrysanthemum)

Fir (Abies)

Forget-me-not (Myosotis)
Forsythia (Forsythia)
Four o'clock (Mirabilis)
Foxglove (Digitalis)
Gaillardia (Gaillardia)
Geraneum (Geranium)
Gladiolus (Gladiolus)
Golddust (Aucuba)
Hawthorn (Crataegus)

Heath, pink (*Erica*) Helichrysum (*Helichrysum*)

Holly (*llex*)

Honeysuckle (*Lonicera*) Honey locust (*Gleditsia*) Hydrangea (*Hydrangea*)

Iris (Iris)

Ivy – Baltic, English (*Hedera*)

Juniper (*Juniperus*) Lantana (*Lantana*)

Larkspur – candle (*Delphinium*) Lavender – cotton (*Santolina*)

Lilac (*Syringa*) Lily (*Lilium*)

Liquidambar (Liquidambar)

Lupin (Lupinus) Magnolia (*Magnolia*)

Maple (*Acer*)
Marguerite – golden
(*Chrysanthemum*)

Marigold (Calendula, Tagetes)
Mock orange (Philadelphus)
Morning glory (Ipomoea)
Moss – rose (Portulaca)
Mother-of-Thyme (Thymus)
Mountain laurel (Kalmia)

Mourning bride (Scabiosa)
Nasturtium (Tropaeolum)

Oak (Quercus)
Orpine (Sedum)

Pachysandra (Pachysandra)

Peony (Paeonia) Petunia (Petunia) Pine (Pinus)

Pittosporum (*Pittosporum*) Podocarpus (*Podocarpus*)

Poplar (Populus) Privet (Ligustrum)

Privet – variegated (Ligustrum)

Redbud (Cercis)

Red-hot poker (*Kniphofia*) Rhododendron (*Rhododendron*)

Rose (Rosa)

Russian olive (*Elaeagnus*) Sage – scarlet (*Salvia*) Snapdragon (*Antirrhinum*)

Spiderwort (*Tradescantia*)

Spirea (Spirea)
Spruce (Picea)
Stonecrop (Sedum)
Sunflower (Helianthus)
Sweet pea (Lathyrus)
Sycamore (Platanus)
Tree peony (Paeonia)
Tulip tree (Liriodendron)
Viburnum (Viburnum)
Violet – African (Saintpaulia)

Walnut (Juglans)

Weigela (*Diervilla*) Willow (*Salix*)

Wormwood (*Artemisia*) Yarrow – fernleaf (*Achillea*)

Yew (*Taxus*) Zinnia (*Zinnia*)

DO NOT use MacPhersons CHLORTHAL 900WG on the following Ornamental Plants:

Bugle (Yellow, Blue)AjugaButton pinkDianthusCarnationDianthusCelosia (Cockscomb,Celosia

Prince of Wales feather)

Germander Teucrium
Geum Geum

Mesembryanthemum Mesembryanthemum

Pansy Viola
Phlox Phlox
Ranunculus Ranunculus
Sweet William Dianthus

Telanthera Telanthera or Alternanthera