

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

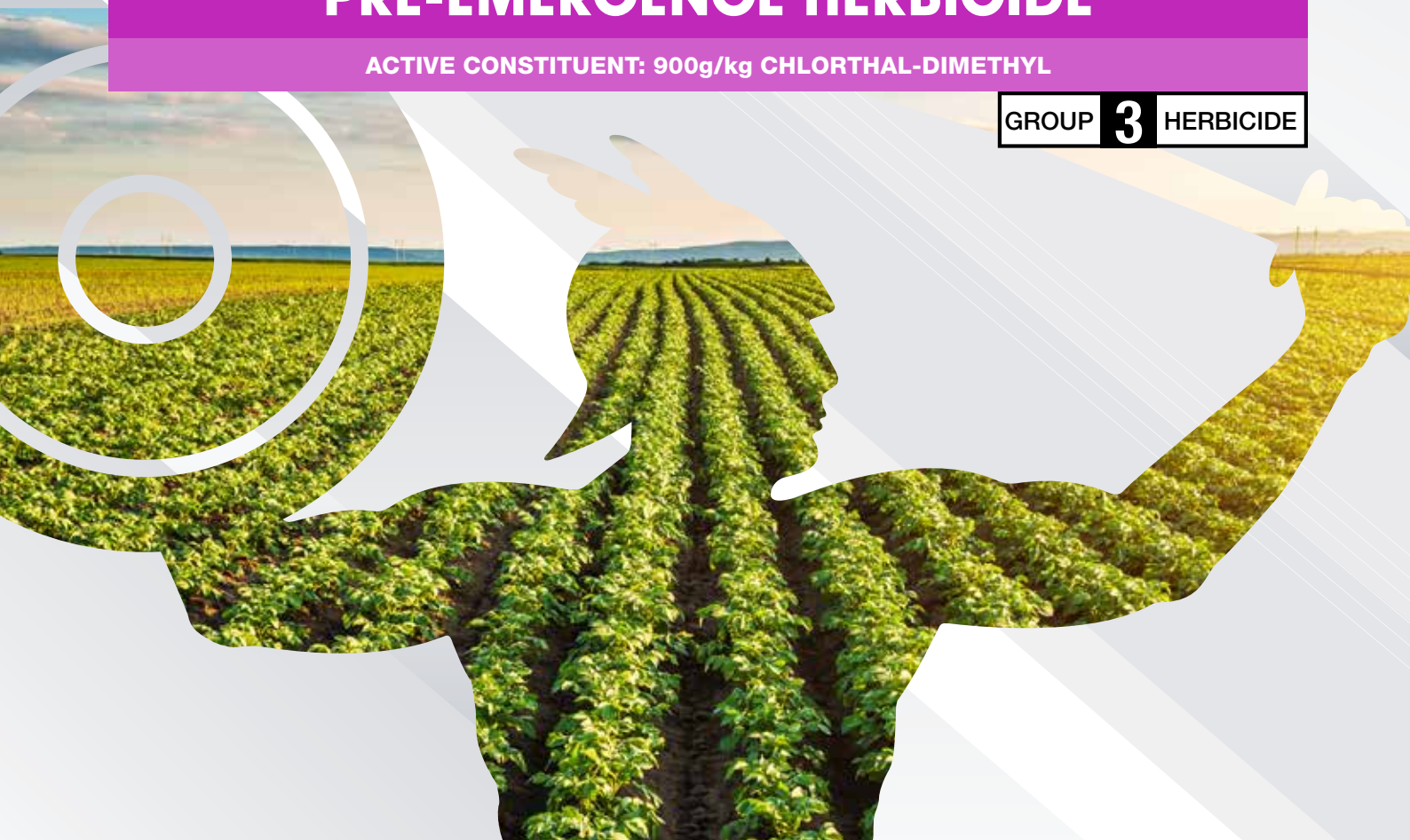
**TITAN**

# CHLORTHAL 900 WG

## PRE-EMERGENCE HERBICIDE

ACTIVE CONSTITUENT: 900g/kg CHLORTHAL-DIMETHYL

GROUP **3** HERBICIDE



For pre-emergence weed control in certain vegetable crops including: Brassicas, Beans, Peas, Garlic, Onions, Carrots, Lettuce, Potatoes, Turnips and for weed control in Strawberries, Cotton, Lawns and Ornamentals as specified in the directions for use table.

APVMA Approval No.: 88705/135340

Pack Size: 2kg; 5-20kg



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

TRANSPORT AND HANDLING  
NOT A DANGEROUS GOOD  
ACCORDING TO THE AUSTRALIAN  
DANGEROUS GOODS (ADG) CODE  
FOR TRANSPORT BY ROAD AND RAIL

## DIRECTIONS FOR USE

**Restraint:** DO NOT graze any treated areas or cut for stock food.

CROP	WEEDS CONTROLLED	RATE/ha	WHP	CRITICAL COMMENTS
Cabbage, Broccoli, Brussels Sprouts, Cauliflower and Asian Brassicas	Annual Sedge Apple-of-Peru Barnyard Grass Black Bindweed, Climbing Buckwheat	5-12.5kg	–	Spray at time of seeding or transplanting. Use lower rates on lighter soils.
Beans, Snap Beans, Mung Beans, Soybeans, Castor Beans	Blackberry Nightshade Blue Pimpernel Caltrop		–	
Peas	Canary Grass		–	
Turnips, Radish, Collards, Kale, Mustard Greens, Turnips (greens and roots) and other Brassica leafy vegetables	Cape Gooseberries Capeweed Chickweed Columbus Grass Corn Spurry		–	
Lettuce (head and leafy varieties)	Crowsfoot Grass Crabgrass Crowfoot, Storksbill Dandelion Deadnettle	6.25kg	4 weeks	Spray at time of transplanting. For maximum effectiveness use on light to medium soils only. Some harder to kill species, eg. Wireweed, Black Bindweed, Docks and Milk/Sow Thistle may not be controlled.
Onions, Garlic	Docks Dodder Fat-hen Fescues Giant Pigweed Green Amaranth Heliotrope	5-12.5kg	–	Spray at time of seeding or transplanting. Can be sprayed directly over transplants. Lay-by applications can be made on onions up to 14 weeks after planting or transplanting. Should weeds emerge, weed or cultivate prior to spraying.
Shallots, Spring Onions	Innocent Weed Sand Burr Johnson Grass Kidney Weed Love Grasses		–	
Potatoes	Mexican Clover		–	Spray at planting, dragoff or lay-by.
Sweet Potatoes, Yams	Mossman River Grass Mouse-ear Chickweed Petty Spurge Pheasants Eye		–	Spray at transplanting. Lay-by application can be made up to 6 weeks after transplanting.
Carrots	Pigeon Grass Pigweed, Neverdie	9-12.5kg	–	Spray at planting. Use lower rate on lighter soils.
Strawberries (new plantings)	Prickly Paddy Melon Prince of Wales Feather	7.5-11kg	–	Apply at transplanting. Use lower rate on lighter soils.
Strawberries (new plantings)	Red Natal Grass Redshank, Prince of Wales Feather		–	
Cotton	Ribgrass, Lamb's Tongue Rolypoly, Buckbush Ryegrass Salvation Jane, Paterson's Curse	5-12.5kg	–	Apply at time of planting. Use higher rate for areas under irrigation. Lay-by application can be made at 6-11kg/ha but not after bolls open.
Lawns (established), Ornamentals	Scarlet Pimpernel Sow Thistle, Milk Thistle Spiny Burr Grass Spiny Emex, Doublegee, Threecornered Jack Stagger Weed Stinging Nettle Summer Grass Toadflax Urochloa or Liverseed Grass Ward's Weed Windmill Grass, Rhodes Grass Winter Grass Wireweed	9-12.5kg	–	Apply to lawns in autumn and early spring to prevent Winter Grass and Crab Grass from germinating. DO NOT use on Bent Grass lawns. Refer to the table of recommended ornamentals. DO NOT use on Bugle, Button Pink, Carnation, Celosia, Germander, Geum, Mesembryanthemum, Pansy, Phlox, Ranunculus, Sweet William or Telanthera.

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

### WITHHOLDING PERIODS:

#### Harvest

**Lettuce:** DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

**Other Crops:** NOT REQUIRED WHEN USED AS DIRECTED.

**Grazing:** DO NOT FEED TREATED FOLIAGE TO LIVESTOCK OR GRAZE TREATED AREAS.

**EXPORT OF TREATED PRODUCE:** Growers should note that suitable MRLs or import tolerances do not exist in all markets for produce treated with TITAN Chlorthal 900 WG Pre-Emergence Herbicide. If you are growing lettuce for export, please check with TITAN AG Pty Ltd or your industry body for the latest information on any potential trade issues and their management before using TITAN Chlorthal 900 WG Pre-Emergence Herbicide.



## 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 2.5cm deep.

Cultivation will reduce effectiveness and should be avoided for as long as possible after application. A second application can be made after cultivation if required.

## MIXING

This product mixes readily with water. Fill the tank with clean water to 60 to 75% of the final volume and add the required quantity slowly to the spray vat with the tank filter mesh removed and the agitation running.

DO NOT dump the product into the tank.

Continue filling the tank to the final volume and wait until all of the product is fully dispersed before spraying. The agitation system should be running during addition of the product and throughout the entire spraying operation. If left to settle, stir and re-suspend any settled material before starting pump and spraying product. Avoid drawing accumulated particles into the outlet pipe.

DO NOT pre-mix in a bucket as a paste. Use 450 litres or more of water per hectare.

## WEEDS NOT CONTROLLED

Some weed species are not effectively controlled by TITAN Chlorthal 900 WG Pre-Emergence Herbicide. 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 TITAN Chlorthal 900 WG Pre-Emergence Herbicide include Galinsoga (Potato Weed), Mustard, Clover, Bathurst Burr, Fumitory, Wild Oats and Nut Grass.

The following is a more detailed list.

Common Name	Botanical Name
Annual Ragweed	<i>Ambrosia artemisiifolia</i>
Bathurst Burr	<i>Xanthium spinosum</i>
Bellvine	<i>Ipomoea plebeia</i>
Bitter Cress, Lesser Swine Cress	<i>Coronopus didymus</i>
Prickly Lettuce	<i>Lactuca serriola</i>
Blue Billygoat Weed	<i>Ageratum houstonianum</i>
Charlock	<i>Sinapis arvensis</i>
Cobbler's Pegs	<i>Bidens pilosa</i>
Common Cotula	<i>Cotula australis</i>
Fumitories	<i>Fumaria</i> spp.
Hairy Jo-Jo	<i>Soliva anthemifolia</i>
Indian Mustard	<i>Brassica juncea</i>
Turnip Weed	<i>Rapistrum rugosum</i>
Variegated Thistle	<i>Silybum marianum</i>
Wild Oats	<i>Avena</i> spp.
Wild Radish	<i>Raphanus raphanistrum</i>
Wild Turnip	<i>Brassica tournefortii</i>
Noogoora Burr	<i>Xanthium pungens</i>
Pepper Cress	<i>Lepidium</i> spp.
Potato Weed	<i>Galinsoga parviflora</i>
Prairie Grass	<i>Bromus unioloides</i>
Bladder Ketmia	<i>Hibiscus trionum</i>
Shepherd's Purse	<i>Capsella bursa-pastoris</i>

Slender Celery	<i>Apium leptophyllum</i>
Spear Thistle	<i>Cirsium vulgare</i>
Starburr	<i>Acanthospermum hispidum</i>
Stinking Roger	<i>Tagetes minuta</i>
Tares, Vetch	<i>Vicia</i> spp.
Thornapples	<i>Datura</i> spp.
Townsville Lucerne	<i>Stylosanthes humilis</i>
Loosestrife	<i>Lythrum</i> spp.
Marshmallow	<i>Malva</i> spp.
Medics	<i>Medicago</i> spp.
Mexican Poppy	<i>Argemone mexicana</i>
Mexican Tea	<i>Chenopodium ambrosioides</i>
Mint Weed	<i>Salvia reflexa</i>

## 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 TITAN Chlorthal 900 WG Pre-Emergence Herbicide.

## CROP SAFETY

Applied according to directions and under conditions favourable for good plant growth, TITAN Chlorthal 900 WG Pre-Emergence Herbicide 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 TITAN Chlorthal 900 WG Pre-Emergence Herbicide, 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.

TITAN Chlorthal 900 WG Pre-Emergence Herbicide is recommended for use in the following deciduous and evergreen trees and 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.

## TITAN Chlorthal 900 WG Pre-Emergence Herbicide can be safely used on the following ornamental plants:

Abelia (*Abelia*), Ageratum (*Ageratum*), Alyssum (*Alyssum*, *Lobularia*), Andromeda – Japanese (*Pieris*), Arborvitae (*Thuja*), Ash (*Fraxinus*), 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*), Coleus (*Coleus*), Columbine (*Aquilegia*), Coneflower – Purple (*Echinacea*), Coreopsis (*Coreopsis*), Coral Bells (*Heuchera*), Cosmos (*Cosmos*), Cotoneaster (*Cotoneaster*), Cottonwood (*Populus*), Crab Apple (*Pyrus*), Cuphea (*Cuphea*), 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*), Geranium (*Geranium*), Gladiolus (*Gladiolus*), Golddust (*Aucuba*), Hawthorn (*Crataegus*), Heath, Pink (*Erica*), Helichrysum (*Helichrysum*), Holly (*Ilex*), 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 TITAN Chlorthal 900 WG Pre-Emergence Herbicide on the following Ornamental Plants:**

DO NOT use TITAN Chlorthal 900 WG Pre-Emergence Herbicide on the following Ornamental Plants: Bugle (Yellow, Blue) (Ajuga), Button Pink (Dianthus), Carnation (Dianthus), Celosia (Cockscomb, Prince of Wales Feather) (Celosia), Germander (Teucrium), Geum (Geum), Mesembryanthemum (Mesembryanthemum), Pansy (Viola), Phlox (Phlox), Ranunculus (Ranunculus), Sweet William (Dianthus), Telanthera (Telanthera or Alternanthera).

**RESISTANT WEEDS WARNING**

TITAN Chlorthal 900 WG Pre-Emergence

Herbicide is a member of the Benzoic acid group of herbicides. The 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 the product and other Group 3 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 3 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG 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 apply under weather conditions or from spraying equipment which 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**

**2kg only:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Puncture and bury empty bags in a local authority landfill. If no landfill is available, bury the containers below 500mm 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.

**5kg and 20kg only:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Shake bag/box contents into spray tank until the bag/box is empty. DO NOT dispose of undiluted chemicals on-site. Puncture or shred and bury empty bags/boxes in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags/boxes and product should not be burnt.

GROUP **3** HERBICIDE

**SAFETY DIRECTIONS**

Will irritate the eyes and skin. Avoid contact with the 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, over normal clothing, buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves, goggles and disposable dust face mask covering mouth and nose. If applying by hand wear cotton overalls, over normal clothing, buttoned to the neck and wrist, elbow-length PVC gloves and disposable dust face mask covering mouth and nose. 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 131126; New Zealand 0800 764 766.

**SAFETY DATA SHEET**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Chlorthal 900 WG Pre-Emergence Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit [titanag.com.au](http://titanag.com.au)

**CONDITIONS OF SALE:** TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Causes skin irritation. Causes serious eye irritation. Precautionary Statements: Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. IF ON SKIN: Wash with plenty of water. Specific treatment (see on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.

