

# CAUTION

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



# Dithane\* Rainshield

## Neo Tec Fungicide

ACTIVE CONSTITUENT: 750 g/kg MANCOZEB

**GROUP Y FUNGICIDE**

For the control of certain fungal diseases of fruit, field crops, tobacco, turf, vegetables and ornamentals as per Directions For Use.

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**CUSTOMER SERVICE TOLL FREE 1-800 700 096**

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Specimen Label

**DIRECTIONS FOR USE: For use in all States where appropriate for the crop and/or disease.**

CROP	DISEASE	RATE PER 100 L	RATE PER HECTARE	WHP Harvest (H) Grazing (G)	CRITICAL COMMENTS
<b>FIELD CROPS</b> Cotton – Pima var. only	Alternaria leaf spot	-	2.5 kg	14 days (H)	Dithane Rainshield Neo Tec is a protectant fungicide. To maximize control ensure thorough coverage of all plant surfaces. Begin applications as soon as disease symptoms appear. Repeat before each infection period (e.g. dew or rain) but no later than 7 to 10 days after the last application. DO NOT apply more than 4 sprays per season.
Peanuts	Cercospora leaf spot Rust	-	1.7 to 2.2 kg	14 days (H) 14 days (G)	Apply at 10 to 14 day intervals commencing when disease symptoms first appear. If rust is anticipated, apply at 7 to 10 day intervals. Use higher rate and shorter spray interval during weather conditions favourable to disease development.
Poppies	Downy mildew	-	2.5 kg	7 weeks (H)	Apply as protectant spray when weather conditions favour disease development. Repeat spray at 14 day intervals if conditions persist.
<b>Pulses grown for dry beans</b>					
Broadbeans / faba beans	Ascochyta blight Chocolate spot Rust Cercospora	-	1.0-2.2kg	4 weeks (H) 14 days (G)	Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development. If disease pressure is severe and conditions favour spread of disease, repeat sprays at 2-3 weeks to protect new growth and developing pods. Use high rate for dense crops and if disease is severe. Repeat more frequently if severe disease persists. For improved coverage add a registered surfactant at 10-20ml/100L of spray.
Chickpeas	Ascochyta blight Botrytis grey mould				
Field peas	Ascochyta blight Black spot Botrytis grey mould Rust				
Lentils and vetch	Ascochyta blight Botrytis grey mould Rust				
Lupins	Botrytis grey mould Anthracnose				
Beans ( <i>Phaseolus</i> spp.)	Rust Anthracnose Ascochyta blight Angular leaf spot				
Soybeans	Rust	-	2.2 kg	7 days (H) 14 days (G)	

CROP	DISEASE	RATE PER 100 L	RATE PER HECTARE	WHP Harvest (H) Grazing (G)	CRITICAL COMMENTS
Tobacco	Blue mould Brown spot Frog eye leaf spot	200 g	2.2 kg	Not required	<b>Field Treatments:</b> Apply at 7 day intervals commencing 10 days after transplanting and ceasing 7 to 10 days before the first harvest. Increase the spray volume accordingly as plant size increases. <b>Seed bed Treatments:</b> Apply when seedlings are 1.5 cm across and then repeat twice weekly. Wet the seedlings evenly without runoff.
FRUIT Bananas	Leaf spot (Mycosphaerella muscolola)	200 g* product plus spray oil (used according to its label directions)	2.2 to 4.5 kg plus spray oil (used according to its label directions)	Nil (H)	Apply when weather conditions favour disease outbreak. Repeat treatments in accordance with locally recommended spray schedules. Use sufficient water to ensure good coverage. Choose a spray oil appropriate or recommended for use on bananas. <b>New South Wales:</b> Ground Application: Apply at 3 week intervals from December or January until May. Aerial Application: Apply at 7 to 10 day intervals from December or January until May. <b>South Queensland:</b> Apply at 3 week intervals from December or January until May. <b>North Queensland and NT:</b> Apply every 2 weeks during the wet season. Extend to 3 weeks after this and then to 4 to 5 weeks during the drier months returning to 3 weeks prior to the next wet season. * for concentrate spraying using misters, refer to Concentrate Spraying under APPLICATION to determine appropriate rate.
	Black pit Cordana leaf spot Fruit speckle Leaf speckle	200 g	2.2 kg		
ORNAMENTALS Carnations	Rust Alternaria leaf spot	150 to 200 g /100 L spray		-	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. During weather conditions favourable to disease development, use the higher rate and shorter spray interval.  <b>Caution:</b> Dithane Rainshield Neo Tec may be phytotoxic to some ornamental species (in particular some varieties of ferns). It is recommended to test a few plants before widespread use.
Chrysanthemums Gladioli	Grey mould (Botrytis) Septoria leaf spot				
	Rust				
Flowers Shrubs	Septoria leaf spot				
Roses	Black spot				
Ferns	Botrytis leaf spot	75 to 100 g/100 L spray			
TURF	Fusarium Helminthosporium Rhizoctonia	200 to 250 g /100 sq. metres			Apply as a protective spray schedule at 7 day intervals throughout the susceptible season. Use sufficient water for adequate coverage. Do not feed grass clippings from treated areas to poultry or animals.

CROP	DISEASE	RATE PER 100 L	RATE PER HECTARE	WHP Harvest (H) Grazing (G)	CRITICAL COMMENTS
<b>VEGETABLES</b> Green legume vegetables including peas and beans grown for fresh consumption.					
Broadbeans / faba beans	Rust Cercospora leaf spot	-	1.7-2.2	7 days (H) 14 days (G)	Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.
	Chocolate spot Ascochyta blight (suppression only)		1.7-2.5	7 days (H) 14 days (G)	If disease pressure is severe and weather conditions favour spread of the disease, repeat the spray treatment at 2-3 week intervals in order to protect new growth and developing pods. Use higher rate for dense crops and if disease pressure is severe. Volume of application: for ground apply 100 L/ha; for aircraft apply at least 30 L/ha.
Peas (including sugar snap and snow peas).	Rust		1.7-2.2	7 days (H) 14 days (G)	Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.
	Ascochyta leaf blight (suppression only)		1.7-2.5	7 days (H) 14 days (G)	If disease pressure is severe and weather conditions favour spread of the disease, repeat the spray treatment at 2-3 week intervals in order to protect new growth and developing pods. Use higher rate for dense crops and if disease pressure is severe. Volume of application: for ground apply 100 L/ha; for aircraft apply at least 30 L/ha.
Green Beans ( <i>Phaseolus</i> spp.)	Rust Anthracnose Angular leaf spot		1.7-2.2	7 days (H) 14 days (G)	Apply when disease symptoms first appear and then repeat at 7-10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development. Spray when leaves, flowers or pods show first signs of infection and weather conditions are likely to remain humid or wet and favour disease development.

CROP	DISEASE	RATE PER 100 L	RATE PER HECTARE	WHP Harvest (H) Grazing (G)	CRITICAL COMMENTS
Beetroot Silver Beet Spinach	Cercospora leaf spot Downy mildew	-	1.7 to 2.2 kg	14 days (H)	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
Capsicum	Target Spot		2 to 3 kg	14 days (H)	
Carrots	Alternaria leaf spot Cercospora leaf spot		1.7 to 2.2 kg	7 days (H)	
Celery	Septoria leaf spot (leaf blight)				
Cole Crops Broccoli Brussel Sprouts Cabbage Cauliflower Cucurbits Cantaloupe Cucumber Melons Pumpkin Squash Zucchini	Alternaria spot Anthracnose Downy mildew Ring spot  Anthracnose Downy mildew Gummy stem blight Septoria spot				
Fennel (Tas only)	Leaf blight (Cercosporidium)	-	2.2 kg	14 days (H)	Apply as a ground spray if disease symptoms are present in November, allowing for one repeat treatment 10-14 days later. Aerial application may be required in prolonged wet periods.
Lettuce	Anthracnose Downy mildew Septoria leaf spot	150 to 200 g	1.7 to 2.2 kg		Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
Onions & Garlic	Downy mildew Purple blotch		2.2 to 3.5 kg	7 days (H)	
Potatoes	Early blight (Target spot) Late blight (Irish blight)		1.7 to 2.2 kg	Not required	
Rhubarb	Downy mildew Rust	150 to 200 g	1.7 to 2.2 kg	14 days (H)	Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. Use the higher rate and shorter spray interval during weather conditions favourable to disease development.
Tomatoes	Anthracnose Early blight (target spot) Grey leaf spot Late blight (Irish blight) Leaf Mould (Fulvia fulva) Phoma rot		2 to 3 kg	7 days (h)	

## TREE AND VINE CROPS

RATE				CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application Section.				
CROP	DISEASE	RATE PER 100 L	WHP	
Citrus	Black spot	200 g plus spray oil (used according to its label directions)	Not required	<p><b>For all uses in this table: Apply by dilute or concentration spraying equipment.</b></p> <p><b>Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</b></p> <p><b>On heavy soil:</b> Spray at 8 and at 15 weeks following a Bordeaux (5-5-100) spray at petal fall.</p> <p><b>On light soil:</b> Add an adjuvant (spreader/sticker) according to the adjuvant label recommendation per 100 L. Spray at 6 and at 13 weeks following a Bordeaux (3.5-3.5-100) spray at petal fall.</p> <p>Choose a spray oil recommended for use on citrus.</p> <p><b>Queensland, NT:</b> Spray at 6 and 12 weeks after a copper spray at ½ to ¾ petal fall.</p> <p>Apply at first sign of mite activity on fruit, usually between December and May. Choose a spray oil recommended for use on citrus.</p> <p>Apply when blossom malformation is observed, usually February. Choose a spray oil recommended for use on citrus.</p>
	Brown citrus mite Citrus rust mite			
	Citrus bud mite			
Custard apples	Pseudocercospora fruit spot	200 g	1 day (H)	Do not apply during flowering. Apply at 3-4 week intervals from first fruit set until harvest. Apply at 2 week intervals in wet, cloudy weather.
Grapevines Blackspot	Downy mildew	150 to 200 g	30 days (H)	For Black spot control apply at budburst and then repeat 10 to 14 days later. If downy mildew is expected, continue spray programme at 10 to 14 day intervals until the threat of disease has passed. Use the shorter spray interval during weather conditions favourable to disease development.
	Phomopsis Cane and Leaf spot		Apply at budburst and then repeat 7 to 10 days later.	
Mangos	Anthraco-nose (Colletotrichum gloeosporioides)	200 g	1 day (H)	Apply at weekly intervals during flowering and then at monthly intervals until near harvest.
Passion fruit	Brown spot (Alternaria passiflorae) Septoria spot	150 g	1 day (H)	Apply at 10 to 14 day intervals from October to May and every 21 to 28 days for remainder of year.
	Anthraco-nose (NSW only)	200g + 600mL miscible summer oil		Spray at weekly intervals during flowering and then fortnightly until near harvest.
Pawpaws (Papaya)	Black spot	200 g		Apply mancozeb plus a wetting agent at 10-14 day intervals during periods conducive to disease.
<b>POME FRUITS</b> Apples Pears	Apple Scab (Black spot) Bitter rot Fly speck Pear Scab Ripe fruit spot Sooty blotch Target spot	150 to 200 g	14 days (H)	Apply at 7 to 14 day intervals following a copper spray at green tip. Use the higher rate and shorter spray interval during prolonged wet conditions. Dithane Rainshield Neo Tec Fungicide can be tank-mixed with Systhane* 400WP Fungicide for the control of apple scab (black spot). Read and follow all recommendations on the label of the tank-mix partner. <b>Dithane Rainshield Neo Tec Fungicide may be harmful to Typhlodromus pyri and its use in orchards where integrated control is practiced should be avoided.</b>

RATE				CRITICAL COMMENTS
CROP	DISEASE	RATE PER 100 L	WHP	
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application Section.				For all uses in this table: Apply by dilute or concentration spraying equipment. <b>Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</b>
<b>STONE FRUITS</b>	Brown rot	150 to 200 g	14 days (H)	
Almonds	Freckle			Apply at early bloom (1-10%), then repeat at mid to full bloom (50-100%); at petal fall, and at shuck fall. Continue with a protective spray program at 2 week intervals. <b>* Caution:</b> Dithane Rainshield Neo Tec Fungicide may be phytotoxic to Wilson, Wickson and Bellarosa varieties of plums. It is advisable to test any new plum variety on a small-scale with Dithane before applying to the whole crop.
Apricots	Rust			
Cherries	Shot Hole			
Nectarines				
Peaches				
Plums* ( see				
CRITICAL				
COMMENTS*)				

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

#### WITHHOLDING PERIOD: HARVEST

Bananas:

**NOT REQUIRED WHEN USED AS DIRECTED**

Mangos:

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

Custard apples and Pawpaws (papaya)

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION  
PAPAYA LEAVES MUST NOT BE MADE AVAILABLE FOR  
HUMAN CONSUMPTION.**

Beans, Carrots, Celery, Cole Crops, Cucurbits,  
Garlic, Onions, Peas, Soybeans, Tomatoes

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

Almonds, Beetroot, Cotton, Capsicums, Fennel,  
Lettuce, Passion Fruit, Peanuts, Pome Fruit,  
Rhubarb, Silver Beet, Spinach and Stone Fruit

**DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

Grapevines

**DO NOT HARVEST FOR 30 DAYS AFTER APPLICATION**

Poppies

**DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION**

Green Legumes, Pulse Crops

**GREEN CROPS: DO NOT HARVEST FOR 7 DAYS  
AFTER APPLICATION**

**GRAIN CROPS: DO NOT HARVEST FOR 4 WEEKS  
AFTER APPLICATION**

Citrus, Potatoes, Tobacco

**WITHHOLDING PERIOD NOT REQUIRED WHEN USED  
AS DIRECTED**

#### WITHHOLDING PERIOD: GRAZING

Cotton

**DO NOT ALLOW LIVESTOCK TO GRAZE COTTON CROP,  
STUBBLE OR GIN TRASH THAT HAS BEEN TREATED WITH  
DITHANE RAINSHIELD NEO TEC FUNGICIDE**

Green Legumes, Peanuts, Pulse Crops

**DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS  
AFTER LAST APPLICATION**

Papaya

**DO NOT USE OR SUPPLY TREATED PAPAYA INCLUDING  
LEAVES FOR STOCK FOOD**

Soybeans

**DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS  
AFTER LAST APPLICATION**

## GENERAL INSTRUCTIONS

Dithane\* Rainshield Neo Tec Fungicide is a protectant fungicide for the control of certain fungal diseases in many crops.

For best results, apply as a regular spray programme. Thorough coverage of the treated crop is essential.

## FUNGICIDE RESISTANCE WARNING

### GROUP Y FUNGICIDE

For fungicide resistance management Dithane\* Rainshield Neo Tec Fungicide is a Group Y fungicide.

Some naturally occurring individual fungi resistant to Dithane\* Rainshield Neo Tec Fungicide and other Group Y fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Dithane\* Rainshield Neo Tec Fungicide and other Group Y fungicides, thus resulting in a reduction in efficacy and possible yield loss.

Since the occurrence of resistant fungi is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of Dithane\* Rainshield Neo Tec Fungicide to control resistant fungi.

## MIXING

Slowly place into spray tank as it is being filled, or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, surfactants etc after Dithane\* Rainshield Neo Tec Fungicide has been placed into suspension.

Maintain sufficient agitation during mixing and spraying to prevent the product settling out and to ensure a uniform spray mixture. Rinse out spray tank, pumps and nozzles at the end of the day.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume.

## ADJUVANTS

The addition of agricultural adjuvants to Dithane\* Rainshield Neo Tec Fungicide may improve initial spray deposits, fungicide redistribution and weatherability. See Directions for Use on adjuvant label for specific recommendations.

## APPLICATION

### DILUTE SPRAYING - TREE AND VINE CROPS ONLY

Use a sprayer designed to apply high volumes of water up to the point of run-off and match to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of first run-off. Avoid excessive run-off.

The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the DIRECTIONS FOR USE table for each 100 L of water. Spray to the point of runoff.

The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

### CONCENTRATE SPRAYING - TREE AND VINE CROPS ONLY

Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.

Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.

Determine an appropriate dilute spray volume (see **DILUTE SPRAYING**) for the crop canopy or consult your local advisor, agronomist or Department of Agriculture to determine this volume. This is needed to calculate the concentrate mixing rate.

The mixing rate for concentrate spraying can then be calculated in the following way:

#### Concentrate Spraying Example

1. Dilute spray volume as determined above:  
e.g. 1000 L/ha
2. Your chosen concentrate spray volume: e.g. 500 L/ha
3. The concentration factor is 2X (1000 / 500)
4. If the dilute label rate is 40 mL/100 L, then the concentrate rate becomes 2X 40, i.e. 80 mL/100 L of concentrate spray

The chosen spray volume, amount of product per 100 L of water and the sprayer set up and operation may need to be changed as the crop grows.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training. Always follow Industry Best Practices.

## AERIAL APPLICATION

May be applied by agricultural aircraft.

Use at least 30 to 50 litres of spray mixture per hectare. Consult the DIRECTIONS FOR USE for the correct rate to be applied in specific crop situations.

## SPRAY TIMING

Treatments should begin prior to disease infection and continue until the threat of disease has passed.

Repeated applications are necessary to protect new plant growth.

Reduce the spray interval when weather conditions favour disease development.

## COMPATIBILITY

Dithane® Rainshield Neo Tec Fungicide may be harmful to *Typhlodromus pyri*, and its use in orchards where integrated control is practiced should be avoided.

This product is compatible with most commonly used agricultural fungicides and insecticides. However, before preparing tank mixes, the user is advised to check compatibility with the other manufacturer's recommendations.

## PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEA, THE ENVIRONMENT AND OTHERS

This product is toxic to fish.

Drift and run-off from treated areas may be hazardous to aquatic organisms in neighbouring areas.

**DO NOT** contaminate ponds, waterways or drains with the chemical or used containers.

**DO NOT** re-use container.

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from fire and sparks.

**DO NOT** allow to become wet or overheated in storage: decomposition, impaired activity or fire may result.

**DO NOT** store near food, feedstuffs, fertilisers or seed. Users are reminded this product should be used before the stated expiry date.

Shake empty bag into spray tank. Do not dispose of undiluted chemicals on site.

Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the bags below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty bags and product should not be burnt.

## SAFETY DIRECTIONS

- May irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin.
- **DO NOT** inhale dust or spray mist.
- After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water.
- After each day's use, wash contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. (Phone: Australia 13 11 26). Avoid giving alcohol.

## MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for **DITHANE® NEO TEC RAINSHIELD FUNGICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit [www.dowagrosciences.com.au](http://www.dowagrosciences.com.au)

## NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Dow AgroSciences or under abnormal conditions.

Expiry Date: 3 years after date of manufacture in unopened bags

APVMA Approval No: 59688/1106

**EMERGENCY RESPONSE  
(ALL HOURS)**  
RING FROM ANYWHERE  
IN AUSTRALIA  
**1-800 033 882**  
(LOCAL CALL FEE ONLY)

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



**UN No. 3077**  
**ENVIRONMENTALLY,  
HAZARDOUS SUBSTANCE**  
**SOLID, N.O.S. (MANCOZEB)**