

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

BARMAC
Thiram DG
 Fungicide

ACTIVE CONSTITUENT: 800 g/kg THIRAM

GROUP **M3** FUNGICIDE

For the control of certain fungal diseases of turf, flowers, fruit, avocados, mangoes, ornamentals, seeds, vegetables and vines as per the Directions For Use Table.

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING

APVMA Approval No.: 41128/61394

BARMAC

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GENERAL INSTRUCTIONS

EXPORT OF TREATED PRODUCE: Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with BARMAC Thiram DG Fungicide. If you are growing produce for export, please check with Amgrow Pty Ltd for the latest information on MRLs and import tolerances BEFORE using BARMAC Thiram DG Fungicide.

FUNGICIDE RESISTANCE WARNING

For fungicide resistance management BARMAC Thiram DG Fungicide is a Group M3 fungicide. Some naturally occurring individual fungi resistant to BARMAC Thiram DG Fungicide and other Group M3 fungicides may exist through normal genetic variability in any fungal population. The resistant individual can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by BARMAC Thiram DG Fungicide and other Group M3 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 Amgrow Pty Ltd accepts no liability for any losses that may result from the failure of BARMAC Thiram DG Fungicide to control resistant fungi.

MIXING

Premix the required amount of product with water prior to adding to spray vat. Keep agitated while spraying.

APPLICATION

DO NOT apply by aircraft. BARMAC Thiram DG Fungicide should be applied as a directed spray to the crop foliage. Through coverage is required to ensure adequate control. Apply to just prior to the point of run-off.

High volume: Mix specific rates if product per 100 L water and spray plants to "point of run-off" stage, thoroughly covering all plant surfaces.

Low volume: Use specified rates per hectare in a convenient volume of water, using effective low volume boom sprays, misters etc. Aim to apply an even small droplet coverage over all plant surfaces. Water volumes may range from 30 to 500 L/ha depending on crop and equipment.

Instructions for Avocado Crops

Dilute Spraying: Use a sprayer designed to apply high spray volumes, up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even run off coverage throughout the crop canopy. Apply sufficient spray volume to cover the crop to the point of run-off. Avoid excessive run-off. The required spray volume to achieve point of run-off may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or other expert advice. Add the amount of product specified in the Directions for Use table for each 100 L water. Spray to the point of run-off. The required dilute spray volume to achieve point of run-off will change and the sprayer set up and operation may also need to be changed, as the crop grows.

Concentrated Spraying: Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies spray 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 spray volume. Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

1. Dilute Spray volume as determined above:
For example 1500 L/ha;
2. Your chosen concentrate spray volume:
For example 500 L/ha;
3. The concentration factor in this example is:
 $3 \times$ (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$);
4. If the dilute label rate is 200 g/100 L, then the concentrate rate becomes 3×200 , that is 600 g/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.

DO NOT use a concentrate rate higher than specified in the Critical Comments for the relevant crop. Concentrate spraying of this product is only appropriate for apples, apricots, avocados, cherries, grapevines, mangoes, nectarines, peaches, pears and plums. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

COMPATIBILITY

DO NOT mix with lime sulphur or bordeaux sprays. DO NOT mix with fungicides containing copper.

RE-ENTRY PERIOD

Mangoes: DO NOT enter treated areas for 34 days after application for high exposure activities such as harvesting, pruning and training unless wearing cotton overalls buttoned to the neck and wrist over normal clothing and chemical resistant gloves. Clothing must be laundered after each day's use. DO NOT enter treated areas for 15 days after application for low exposure activities such as irrigation and scouting unless wearing cotton overalls buttoned to the neck and wrist over normal clothing and chemical resistant gloves. Clothing must be laundered after each day's use.

Avocados: DO NOT enter treated areas for 38 days after application for high exposure activities such as harvesting, pruning and training unless wearing cotton overalls buttoned to the neck and wrist over normal clothing and chemical resistant gloves. Clothing must be laundered after each day's use. DO NOT enter treated areas for 19 days after application for low exposure activities such as irrigation and scouting unless wearing cotton overalls buttoned to the neck and wrist over normal clothing and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF LIVESTOCK

DO NOT feed grass clippings from treated areas or treated seed to poultry or animals.

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 well ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Single rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Puncture and bury empty containers in a local landfill. If not available, bury the containers at a depth of 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots, in compliance with relevant Local, State or Territory government regulations. Empty containers or product should not be burned.

SAFETY DIRECTIONS

Will irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container, mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length chemical resistant gloves and goggles and half-face piece respirator. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves and contaminated clothing.

FIRST AID

If Poisoning occurs contact a doctor or Poisons Information Centre. Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet available from Amgrow Pty Ltd or from our internet site www.barmac.com.au.

NOTICE: This product is designed only for the particular purposes indicated on the label. Failure to use the product strictly as directed may be illegal, prove dangerous and render the product ineffective. The buyer or user is responsible for any misuse or negligence in the handling, storage, use of or disposal of this material. Amgrow Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply and use of this product other than those responsibilities mandatorily imposed by Statutes applicable to the sale and supply of these goods.

DIRECTIONS FOR USE

SITUATION	PEST	RATE	CRITICAL COMMENTS
TURF	Brown Patch (<i>Rhizoctonia solani</i>), Damping Off (<i>Pythium</i> spp.), Dollar Spot (<i>Sclerotinia homoeocarpa</i>), Fusarium Patch (<i>Fusarium</i> spp.)	120 g in 50 litres of water per 100 m ²	Apply at first sign of disease and repeat at 7-10 day intervals particularly in humid weather.
AVOCADO	Anthracnose (<i>Glomerella cingulata</i>) Stem End Rot (<i>Dorthiorella</i> spp.)	Dilute Spraying 150-300 g/100 L Concentrate Spraying Refer to application section	Spray every 30 days from flowering until harvest. During extended wet periods reduce the spray interval to every 14 days. Use the higher rate under more intense disease pressure. Apply only using air blast equipment with an enclosed cab.
GRAPES	Black Spot (Anthracnose) (<i>Elsinoe ampelina</i>)	150 g/100 litres of water	Apply at bud swell, bud burst and when shoots are 15-20 cm long. Repeat every 14 days if weather conditions favour disease development.
POME FRUIT Apples	Black Spot (<i>Venturia inaequalis</i>), Target Spot & Ripe Spot (<i>Pezizula</i> spp.)	150 g/100 litres of water	Apply after early green tip sprays. Apply at pink bud stage and at calyx stage. Follow by 4 cover sprays at 10-14 day intervals. Then apply every 14-21 days if required until 7 days before harvest.
Pears	Black Spot (<i>Venturia pirina</i>) (QLD, NSW, VIC, TAS, SA only)		Apply at spur burst, after green tip copper spray. Apply again at white bud followed by 4 cover sprays at 10-14 day intervals, thereafter apply at 2-3 week intervals depending on the weather.
	Black Spot (<i>Venturia pirina</i>) (WA only)	150 g/100 litres of water	After usual early sprays apply at finger stage, full bloom, petal fall, then as a cover spray at 10-14 day intervals.
SEEDS (QLD, VIC, TAS, SA only)	Damping Off, Seed Decay, Seedling Rot	5 g/kg of seed	Apply to seed as slurry in convenient volume of water.
STONE FRUIT Apricots, Cherries, Nectarines, Peaches, Plums	Brown Rot (Fruit) (<i>Monilinia fructicola</i>) (QLD, NSW, VIC, TAS, SA, NT only) Freckles (Apricots) (<i>Venturia carpophila</i>), Shot Hole (<i>Stigimina carpophila</i>)	150 g/100 litres of water	Apply at early bloom, after bud swell copper sprays, at petal fall, at shuck fall and then every 3-4 weeks if required, until 7 days before harvest.
		150 g/100 litres of water	Apply at shuck fall, after early bud swell copper sprays and again 4 and 8 weeks. (Apply 2 weeks after shuck fall for susceptible varieties.)
STRAWBERRIES (QLD, VIC, TAS, SA, WA only)	Black Spot (<i>Colletotrichum acutatum</i>), Grey Mould (<i>Botrytis cinerea</i>)	150 g/100 litres of water	Apply as a protective spray at flowering and then at 10-14 days intervals as necessary until 2 days before harvest. DO NOT exceed a maximum water volume of 1200 L/ha.
MANGOES	Anthracnose (<i>Collectotrichum gloeosporiodes</i>)	200 g/100 litres of water	Apply at weekly intervals during flowering and then at 14-28 day intervals until 14 days before harvest. Apply only using air blast equipment with an enclosed cab.

SITUATION	PEST	RATE	CRITICAL COMMENTS
VEGETABLES Carrots, Beans, Cabbage, Celery	Damping Off (QLD only) Septoria Leaf Spot (<i>Septoria apiicola</i>) (QLD, NSW, VIC, TAS, SA, WA only)	150 g/100 litres of water	Drench affected patches using 2.5-5 L/m ² . As a preventative drench with 0.6 L/m ² every 5-7 days. Apply when disease first appears and at intervals of 7-10 days if weather favours disease development.
Lettuce	Anthracnose (<i>Marssonina panattoniana</i>), Botrytis (<i>Botrytis cinerea</i>) (QLD, VIC, TAS, SA, WA, NT only)	200 g/100 litres of water	Apply when disease first appears and at intervals of 7-10 days if weather favours disease development.
ORNAMENTALS Rose	Black Spot (<i>Diplocarpon rosae</i>) (VIC, TAS, SA, WA, NT only)	150 g/100 litres of water	Spray early spring and every 10-14 days until the end of autumn if conditions favour disease development.
Chrysanthemum, Carnation	Septoria Spot (<i>Septoria</i> spp.) (VIC, TAS, WA, SA, NT only), Grey Mould (<i>Botrytis cinerea</i>) (VIC, TAS, SA, WA, NT only)	150 g/100 litres of water	Spray early spring and every 10-14 days until the end of autumn if conditions favour disease development.
Iris, Rose	Grey Mould (<i>Botrytis cinerea</i>) (VIC, TAS, SA, WA, NT only)	150 g/100 litres of water	Spray early spring and every 10-14 days until the end of autumn if conditions favour disease development.
Tulip, Lilium	Fire (<i>Botrytis tulipae</i>) (WA, SA, VIC, TAS only)	150 g/100 litres of water	Spray early spring and every 10-14 days until the end of autumn if conditions favour disease development.

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

WITHHOLDING PERIODS (WHP):

Avocados: NOT REQUIRED WHEN USED AS DIRECTED

Fruit and Vegetables: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

Mangoes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.