

POISON
KEEP OUT OF REACH OF CHILDREN
READY SAFETY DIRECTIONS BEFORE OPENING OR USING



ZIRAM DG

FUNGICIDE



ACTIVE CONSTITUENT: 760g/kg ZIRAM

GROUP Y FUNGICIDE

Controls black spot & other fungal diseases of Celery, Grapes,
Pome & Stone Fruits & Roses as per the Directions-for-Use Table.

NET WEIGHT 10Kg, 20 Kg, 25 Kg



BARMAC INDUSTRIES PTY LTD
32 Flanders Street, SALISBURY 4107
Phone (07) 3255 6000

Batch Number
Date of manufacture

NRA APPROVAL NUMBER 54852/1201

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT mix with Lime Sulphur

DO NOT mix with fungicides containing copper.

Tree and vine crops

RATE			CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying refer to the Mixing/Application section.			
CROP	DISEASE	RATE	
Grapes	Black Spot (Elsinoe ampelina)	150g/100 L of water	Apply at bud swell, bud burst and 2 to 3 weeks later as a foliar cover spray. If bad weather persists apply at 10 to 14 day intervals.
POME FRUIT Apples	Black Spot (Venturia inaequalis)		Apply after early copper sprays. Apply at spur burst pink bud stage and then every 14 days or as required in cover sprays.
	Bitter Rot (Glomerella cingulata)		Apply as for Black Spot. Summer applications are most important.
Pears	Black Spot (Venturia pirina)		Apply after early copper sprays. Apply at spur burst at white bud stage and calyx stage, and then every 14 days or as required in cover sprays.
STONE FRUIT Cherries Nectarines Peaches (not Apricots)	Blossom Blight (Monilinia laxa) Brown rot-Fruit: (Monilinia fructicola) Shot Hole (Stigmata carpophila)		Apply at mid full bloom, early petal fall and at shuck fall. Apply cover sprays at 14 day intervals after fruit commences to ripen. Also apply at 21 and 7 days before harvest.
	Leaf Curl (Taphrina deformans)	240g/100 L of water	Apply at early bud swell.
			150g/ 100 L of water
	Freckle (Venturia carpophila)		Apply at shuck fall and then every 3 weeks until 8 weeks before harvest.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Celery	Septoria leaf spot (Septoria apiicola)	150g/100 L of water	Apply as a protective spray every 7 to 10 days from seedling to harvest.
Roses	Black spot (Diplocarpon rosae)		Spray early spring and every 10 to 14 days until end of flowering.

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

WITHHOLDING PERIOD:

FRUIT and VEGETABLES: DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.

GENERAL INSTRUCTIONS

Apply before disease symptoms appear and spray to obtain thorough coverage of stems, leaves, buds and flowers.

MIXING / APPLICATION: This product does not require pre mixing. Add about 25% of required water volume to spray vat and slowly add product. Thorough agitation during mixing is essential. Continue agitation while adding remaining water. The addition of a non ionic wetting agent to full spray tank is recommended.

DILUTE SPRAYING: (Tree and Vine Crops) Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient product to cover the crop to the point of runoff. Avoid excessive runoff. 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 setup and operation may also need to be changed as the crop grows.

CONCENTRATE SPRAYING (Tree and Vine Crops): Use a sprayer designed and set up for concentrate spraying (i.e. A sprayer which applies water volumes less than those required to reach the point of runoff) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop using your chosen water volume. Determine an appropriate dilute spray volume (See dilute spraying above) for the crop canopy. This is needed to calculate the mixing rate.

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

EXAMPLE ONLY:

- (i) Dilute spray volume as determined above. E.g. 1500 L/ha
- (ii) Your chosen spray volume. E.g. 500 L/ha
- (iii) The concentration factor in this example is 3X (i.e. $1500\text{L}/500\text{L} = 3$)
- (iv) If the dilute rate is 150g/100L, then the concentrate rate becomes $3 \times 150\text{g}$, that is 450 g/100L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water and the sprayer setup 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 and follow industry best practices.

FUNGICIDE RESISTANCE WARNING:**GROUP Y FUNGICIDE**

For fungicide resistance management Barmac Ziram DG Fungicide is a Group Y fungicide. Some naturally occurring individual fungi resistant to Barmac Ziram DG 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 Barmac Ziram DG 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, Barmac Industries Pty Ltd accepts no liability for losses that may result from the failure of Barmac Ziram DG Fungicide to control resistant fungi.

PROTECTION OF LIVESTOCK: Low hazard to bees. May be applied on any plants at any time.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT: Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL: Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizer. Do not allow product to become wet or overheated in storage. Do not dispose of undiluted chemicals on-site. Puncture, shred and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS: Poisonous if inhaled. Harmful if swallowed. Product is corrosive. Attacks eyes and will irritate the skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. Repeated exposure may cause allergic disorders. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. 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 and goggles and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor or Poisons Information Centre (phone 131 126). Avoid giving alcohol. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

MATERIAL SAFETY DATA SHEET: Additional information is listed on the Material Safety Data Sheet available from Barmac Industries 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. Barmac Industries 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

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Controls black spot & other fungal diseases of Celery, Grapes,
Pome & Stone Fruits & Roses as per the Directions-for-Use Table.

The bag must not be sold separately. Do not destroy box while the product still remains.

NET WEIGHT 2 Kg



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Tree and vine crops

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	Leaf Curl (Taphrina deformans)	240g/100 L of water	Apply at early bud swell.
		150g/ 100 L of water	Apply at petal fall following a copper spray at bud movement.
	Freckle (Venturia carpophila)		Apply at shuck fall and then every 3 weeks until 8 weeks before harvest.

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EXAMPLE ONLY:

- (v) Dilute spray volume as determined above. E.g. 1500 L/ha
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- (vii) The concentration factor in this example is 3X (i.e. $1500\text{L}/500\text{L} = 3$)
- (viii) If the dilute rate is 150g/100L, then the concentrate rate becomes $3 \times 150\text{g}$, that is 450 g/100L of concentrate spray.

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PROTECTION OF LIVESTOCK: Low hazard to bees. May be applied on any plants at any time.

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STORAGE AND DISPOSAL: Store in the closed, original container in a dry, well-ventilated area, as cool as possible out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizer. Do not allow product to become wet or overheated in storage. Do not dispose of undiluted chemicals on-site. Puncture, shred and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

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Pome & Stone Fruits & Roses as per the Directions-for-Use Table.

Before Using Product, read directions on outer pack.
Sale of this bag except in outer pack is illegal.

NET WEIGHT 2 Kg



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32 Flanders Street, SALISBURY 4107
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(Inner Bag)

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