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

# Ziram Granuflo™

FUNGICIDE

ACTIVE CONSTITUENT: 760 g/kg ZIRAM

GROUP M3 FUNGICIDE

Controls black spot and other fungal diseases in celery, grapes, apples, pears, roses and stone fruit as specified in the DIRECTIONS FOR USE table

## DIRECTIONS FOR USE

### Tree / Vine Crops:

RATE			CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the <i>Special Instructions for Tree/Vine Crops</i> section.			For all uses in this table: Apply by dilute or concentrate spraying equipment. <b>Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</b> Refer to the <i>Special instructions for Tree/Vine Crops</i> section.
CROP	DISEASE	RATE	
Apples	Black spot	150 g/100 L	Apply after early copper sprays. Apply at spur burst, pink bud stage and then every 14 days or as required in cover sprays.
Grapes			Apply at bud swell, bud burst and 2 to 3 weeks later as a foliar cover spray. If wet weather persists apply at 10 to 14 day intervals.
Pears			Apply after early copper sprays. Apply at spur burst, white bud and calyx stage, then every 14 days or as required in cover sprays.
Stone fruit (except apricots)	Blossom blight, brown rot, shot hole	240 g/100 L	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.
	Freckle		Apply at shuck fall and then every 3 weeks until 8 weeks before harvest.
	Leaf curl		150 g/100 L

### Non Tree / Vine Crops:

CROP	DISEASE	RATE	CRITICAL COMMENTS
Celery	Septoria leaf spot	150 g/100 L	Apply as a protective spray every 7 to 10 days from seedling to harvest.
Roses	Black spot		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

Apples, celery, grapes, pears, stone fruit: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

### EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with Ziram Granuflo. If you are growing edible produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances before using Ziram Granuflo.

## GENERAL INSTRUCTIONS

### Mixing

Do not dump the required product into the spray tank all at once. With the spray tank no more than a quarter full, slowly add the product ensuring continuous agitation. Add the required amount of water. When tank is nearly full add a wetting agent. Agitate well.

### Application

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

### *Special Instructions for Tree/Vine 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 coverage throughout the crop canopy. Apply sufficient spray solution 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 of 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.

#### Concentrate 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 X (i.e.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
  4. If the dilute label rate is 150 g/100 L, then the concentrate rate becomes 3 x 150, that is 450 g of product per 100 L water for concentrate spraying.
- 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 and follow industry Best Practices.

## FUNGICIDE RESISTANCE WARNING

<b>GROUP</b>	<b>M3</b>	<b>FUNGICIDE</b>
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For fungicide resistance management Ziram Granuflo is a Group M3 fungicide. Some naturally occurring fungal populations resistant to Ziram Granuflo and other Group M3 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Ziram Granuflo 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, Bayer CropScience Pty Ltd accepts no liability for any losses that result from failure of Ziram Granuflo to control resistant fungi.

## COMPATIBILITY

Do not mix with lime sulphur or with fungicides containing copper.

## PRECAUTIONS

### Re-entry Period

Do not allow entry into treated area until spray has dried. When prior entry is necessary, wear overalls and elbow-length rubber gloves. Clothing must be washed after each day's use.



**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 product or used containers.

**STORAGE AND DISPOSAL**

Store in the tightly closed, original container in a dry, well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight.

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm in a disposal pit specially marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers should not be burned.

**SAFETY DIRECTIONS**

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

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26). 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.

**SAFETY DATA SHEET**

Additional information is listed in the Safety Data Sheet, which can be obtained from [www.crop.bayer.com.au](http://www.crop.bayer.com.au).

**EXCLUSION OF LIABILITY**

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability for loss or damage arising from failure to follow such directions and instructions.

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APVMA Approval No.: 47127/0104

FOR 24 HOUR SPECIALIST ADVICE  
IN EMERGENCY ONLY  
PHONE 1800 033 111

**GHS STATEMENTS**

**•Harmful if swallowed. •Fatal if inhaled. •Causes serious eye damage. •May cause an allergic skin reaction. •May cause respiratory irritation. •May cause damage to organs through prolonged or repeated exposure.**  
•IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. •IF ON SKIN: Wash with plenty of soap and water. •If skin irritation occurs: Get medical advice/attention. •IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician. •IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. •Store locked up.