



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

POLYRAM® DF FUNGICIDE SPRAY

ACTIVE CONSTITUENT: 700 g/kg METIRAM

GROUP **M3** FUNGICIDE

For the control of fungal diseases in Apples, Pears, Grapevines, Stone fruit, Bananas, Mangoes, Poppies, Chickpeas, Lentils, Field peas, Faba beans and certain vegetable crops as per the DIRECTIONS FOR USE table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

NET CONTENTS: 15 kg, 25 kg

**BASF Australia Ltd ABN 62 008 437 867
Level 12, 28 Freshwater Place Southbank VICTORIA 3006**

® Registered trademark of BASF

APVMA Approval No.: 30467/61798

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Shake empty bag into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

SAFETY DIRECTIONS

May irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. Wash hands after use.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet.

CONDITIONS OF SALE

All conditions and warranties rights and remedies implied by law or arising in contract or tort whether due to the negligence of BASF Australia Ltd or otherwise are hereby expressly excluded so far as the same may legally be done provided however that any rights of the Buyer pursuant to non-excludable conditions or warranties of the Trade Practices Act 1974 or any relevant legislation of any State are expressly preserved but the liability of BASF Australia Ltd or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

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BASF POLYRAM DF FUNGICIDE SPRAY

700 g/kg METIRAM

HAZARD STATEMENTS

May cause damage to organs (skeletal muscle) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS (Prevention)

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

PRECAUTIONARY STATEMENTS (Response)

IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation or rash occurs: Call a POISON CENTRE or doctor/physician. Take off contaminated clothing and wash it before re-use. Collect spillage.

Batch No:

Date of Manufacture:

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FOR SPECIALIST ADVICE IN AN EMERGENCY ONLY PHONE 1800 803 440 TOLL FREE-ALL HOURS-
AUSTRALIA WIDE

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DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply by aerial application to bananas.

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 | STATE | RATE | WHP | |
| Pome fruits (Apples Pears) | Apple scab (Black spot) (<i>Venturia inaequalis</i>) Bitter rot Fly speck Pear scab Ripe fruit spot Sooty blotch Target spot | All States | <u>Dilute Spray</u> 150 -200g/100 L <u>Concentrate Spray</u> Refer to the "Application" section | 14 days | Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Apply after early copper sprays and repeat every 7 to 14 days or as recommended in local Department of Agriculture schedules. Use the higher rate and the shorter spray interval when weather conditions favour disease development. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. NOTE: POLYRAM DF Fungicide Spray is not compatible with integrated mite control programs (IMCP) using the predatory mite <i>Typhlodromus pyri</i> . |
| Grapevines | Black spot (<i>Elsinoe ampelina</i>) Downy mildew (<i>Plasmopara viticola</i>) | | <u>Dilute spray</u> 200g/100 L <u>Concentrate spray</u> Refer to the "Application" section. | 14 days | Apply at bud burst as first spray only if carryover expected, then two weeks after bud burst or as disease pressure requires. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. |
| | Phomopsis cane and leaf spot | | <u>Dilute spray</u> 150-200g/100 L <u>Concentrate spray</u> Refer to the "Application" section. | | Apply at bud burst and then repeat 7-10 days later. |
| Mangoes | Anthracnose (<i>Colletotrichum gloeosporioides</i>) | | 200g/100L | 1 day | Apply at weekly intervals during flowering and then at monthly intervals until near harvest. |

| RATE | | | | | CRITICAL COMMENTS |
|---|----------|------------|-------------|---------|--|
| In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application section | | | | | |
| CROP | DISEASE | STATE | RATE | WHP | |
| Stone fruit | Rust | All States | 150 g/100 L | 14 days | Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. |
| | Shothole | | | | Apply the first spray at petal fall, followed by three further applications at 10 to 14 day intervals. In WA only, apply the first spray at pink bud, then petal fall, followed by three further applications at 10 to 14 day intervals. |

NON TREE AND VINE CROPS

| CROP | DISEASE | STATE | RATE | WHP | CRITICAL COMMENTS |
|-----------|--|----------------------------------|--|--------|--|
| Asparagus | Rust (<i>Puccinia</i> spp.) | Qld, Vic, Tas, SA, WA only | High Volume: 200-300g/100 L Low Volume: 2.2-3.5kg/ha | 7 days | Begin application when disease first becomes apparent, and repeat at 7 to 10 day intervals. Use the higher rate and the shorter spray interval when weather conditions favour disease development. |
| Bananas | Leaf spot (<i>Mycosphaerella musicola</i>) | All States | 200g /100L plus spray oil (used according to its label directions) or 2.2-4.5kg/ha plus spray oil (used according to its label directions) | - | <u>Use only on bagged bananas</u> 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 on bananas. NSW: Ground Application: Apply at 3 week intervals from December or January until May. South Qld: Apply at 3 week intervals from December or January until May. Nth Qld and NT: Apply every 2 weeks during the wet season. Extend to 3 weeks after this and then to 4-5 weeks during drier months returning to 3 weeks prior to the next wet season. For concentrate spraying misters, refer to Concentrate Spraying under Application to determine appropriate rate. |
| | Black pit Cordana leaf spot Fruit speckle Leaf spot | | 200g/100L or 2.2kg/ha | | |

| CROP | DISEASE | STATE | RATE | WHP | CRITICAL COMMENTS |
|---|--|-----------------------------------|---|---------|--|
| Beans | Rust (<i>Uromyces appendiculatus</i>), Anthracnose (<i>Colletotrichum lindemuthianum</i>) | All States | High Volume: 200-300g/100 L Low Volume: 2.2- 3.5kg/ha | 7 days | Begin application when disease first becomes apparent, and repeat at 7 to 10 day intervals. Use the higher rate and the shorter spray interval when weather conditions favour disease development. |
| Cabbages, Cauliflowers, Brussels sprouts, Broccoli | Downy mildew (<i>Peronospora parasitica</i>) | All States | High Volume: 200-300g/100 L Low Volume: 2.2-3.5kg/ha | 7 days | Begin application when disease first becomes apparent, and repeat at 7 to 10 day intervals Add a non-ionic surfactant at label rates. Use the higher rate and the shorter spray interval when weather conditions favour disease development. |
| | Ring spot (<i>Mycosphaerella brassicicola</i>) | Qld, Vic, Tas, SA, WA only | | | |
| Capsicum, Eggplant, Peppers | Alternaria leaf spot Cercospora leaf spot | All States | 2-3kg/ha | 14 days | 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. |
| Carrots | Cercospora leaf spot (<i>Cercospora carotae</i>), Alternaria leaf spot (<i>Alternaria</i> spp.) | All States | High Volume: 200g/100 L Low Volume: 2.2 kg/ha | 7 days | Begin application when disease first becomes apparent, and repeat at 7 to 10 day intervals. |
| Celery | Early blight (<i>Cercospora apii</i>), late blight (<i>Septoria apiicola</i>) | Qld, NSW, Vic, Tas, WA only | 2.2 kg/ha | 2 days | Begin application when disease first becomes apparent and repeat at weekly intervals. |
| Cucumbers | Downy mildew (<i>Pseudoperonospora cubensis</i>), Gummy stem blight (<i>Didymella bryoniae</i>) | All States | | 2 days | Begin application when disease first becomes apparent, and repeat at weekly intervals. Spray both sides of leaves. Add a non-ionic surfactant at label rates. |
| Other cucurbits | | | | 7 days | |
| Lettuce | Downy mildew (<i>Bremia lactucae</i>) | All States | 2.2-3.5kg/ha | 7 days | Apply when disease symptoms first appear and then repeat at 7 to 10 day intervals. |
| | Septoria (<i>Septoria lactucae</i>) | NSW, Vic, Tas, SA, WA only | | | |
| Bulb onions and Garlic | Downy mildew Purple blotch | All States | 2.2-3.5kg/ha | 7 days | 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. |
| Poppies | Downy mildew | All States | 2.5 kg/ha | 7 weeks | Apply as protectant spray when weather conditions favour disease development. Repeat spray at 14 day intervals if conditions persist. |

| CROP | DISEASE | STATE | RATE | WHP | CRITICAL COMMENTS |
|--------------------------|--|----------------------------------|---|---|---|
| Potatoes | Early blight (target spot, <i>Alternaria solani</i>), Late blight (Irish blight, <i>Phytophthora infestans</i>) | All States | High Volume: 150- 200g/100 L Low Volume: 1.7-2.5 kg/ha | 7 days | Apply when disease symptoms first appear and then repeat every 7-10 days. Use the higher rate and the shorter spray interval when weather conditions favour disease development. If overhead irrigation is used apply immediately following irrigation. |
| Broadbeans Faba beans | Ascochyta blight Chocolate spot Rust Cercospora | All States | 1.0-2.2 kg/ha | 6 weeks (Harvest) and 21 days (Grazing) | 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 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 | | | | |
| Tobacco | Blue mould (<i>Peronospora hyoscyami</i>) | Qld, NSW, Vic, WA only | High Volume: 200- 250g/100 L | - | Apply as a complete cover spray at weekly intervals. |
| | Brown spot (<i>Alternaria</i> spp.), Frog-eye leaf spot (<i>Cercospora nicotianae</i>) | Qld, WA only | Low Volume: 2.2-2.7kg/ha | | Apply when disease symptoms first appear. Repeat every 7-10 days as required. Use the higher rate and the shorter spray interval during weather conditions favourable to disease development. |
| Tomatoes | Early blight (target spot, <i>Alternaria solani</i>), Septoria (<i>Septoria lycopersici</i>) | All States | High Volume: 150- 200g/100 L Low Volume: 2-3kg/ha | 14 days | |
| | Late blight (Irish blight), (<i>Phytophthora infestans</i>) | All States (not ACT or NT) | | | |

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

WITHHOLDING PERIOD (WHP)

MANGOES

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

CELERY, CUCUMBERS

DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.

POTATOES

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

OTHER CUCURBITS AND OTHER VEGETABLES

(THIS INCLUDES ONIONS)

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

POME FRUIT, STONE FRUIT, CAPSICUM, EGGPLANT

PEPPERS, TOMATOES AND GRAPEVINES

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

POPPIES

DO NOT HARVEST FOR 7 WEEKS AFTER APPLICATION

PULSES

DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION

DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 21 DAYS AFTER APPLICATION.

BANANAS, TOBACCO

NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

FUNGICIDE RESISTANCE WARNING

| | | |
|-------|-----------|------------|
| GROUP | M3 | FUNIGICIDE |
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POLYRAM DF Fungicide Spray is a member of the multi-site activity group of fungicides. For fungicide resistance management POLYRAM DF is a Group M3 fungicide.

Some naturally occurring fungal populations resistant to POLYRAM DF and other Group M3 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 POLYRAM DF 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 BASF Australia Ltd accepts no liability for any losses that may result from the failure of POLYRAM DF to control resistant fungi.

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with POLYRAM DF Fungicide Spray. If you are growing produce for export, please check the latest information on MRLs and import tolerances BEFORE using POLYRAM DF.

APPLICATION

TREE AND VINE CROPS - Apples, pears, stone fruit, grapevines, mangoes

Dilute spraying

- ◆ Use a sprayer designed to apply high volumes of water 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 water to cover the crop to the point of 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 run-off.
- ◆ 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

- ◆ 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** 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

Dilute spray volume as determined above: For example 1500 L/ha

Your chosen concentrate spray volume: For example 500 L/ha

The concentration factor in this example is: 3 X (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)

If the dilute label rate is 200 g/100 L, then the concentrate rate becomes 3 x 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.
- ◆ For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

For concentrate application, use a spray volume of at least 200 litres per hectare.

ROW CROPS**High Volume (dilute spraying)**

Apply in sufficient water to thoroughly wet the crop to the point of run-off. The water volume should increase as the crop size and bulk increases. Where a range of rates is specified, use the higher rate when disease pressure is high.

Low Volume (concentrate spraying)

Apply the specified rate per hectare in sufficient water to ensure thorough, even coverage of all plant parts. Where a range of rates is specified, use the higher rate when disease pressure is high.

MIXING

Slowly pour the POLYRAM DF Fungicide Spray into the spray tank three-quarters filled with water, with the agitation system actively moving. Alternatively, pre-mix by adding to the POLYRAM DF Fungicide Spray a quantity of water of at least half the volume of the POLYRAM DF Fungicide Spray, and stir immediately. Add this mixture to the bulk of the water in the spray vat with agitation running.

COMPATIBILITY

POLYRAM DF Fungicide Spray is compatible with most insecticides and fungicides. However, to be sure of compatibility with any particular product, check with your local dealer first.

PRECAUTIONS

Grapevine leaves treated with POLYRAM DF Fungicide Spray must not be used for human consumption.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. Clothing must be laundered after each day's use. For glasshouses and other confined areas, DO NOT re-enter until spray deposits have dried and area has been thoroughly ventilated.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET CROPS

DO NOT apply under weather conditions, or from spraying equipment, that 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 this product or the used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Shake empty bag into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

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or any intermediate Seller pursuant thereto shall be limited if so permitted by the said legislation to the replacement of the goods sold or the supply of equivalent goods and all liability for indirect or consequential loss or damage of whatsoever nature is expressly excluded. This product must be used or applied strictly in accordance with the instructions appearing hereon. This product is solely sold for use in Australia and must not be exported without the prior written consent of BASF Australia Ltd.

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