

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SULGRAN 80 WG Fungicide/Miticide

ACTIVE CONSTITUENT: 800g/kg SULPHUR (S) present as Wettable Sulphur

GROUP M2 FUNGICIDE

For the control of certain fungal diseases in grape vines, ornamentals, pome and stone fruit and vegetables and for control of mites in citrus, grape vines, ornamentals and vegetables and white louse scale in citrus as per the Directions For Use table.

CONTENTS: 10 kg - 25 kg

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

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**RLP
Approved**

DIRECTIONS FOR USE**Restrictions:**

DO NOT apply within 3 weeks of an oil spray

DO NOT use in hot weather on sulphur sensitive crops.

DO NOT mix with formulations containing mineral oil except to deciduous fruit in the dormant period

DO NOT use on grapevines when both temperature exceeds 30°C and relative humidity exceeds 75% and other crops when temperature exceeds 24°C

TREE AND VINE CROPS

RATE In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.				CRITICAL COMMENTS For all uses in this table: 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.
CROP	DISEASE / PEST	STATE	RATE / 100L	
Citrus	Citrus Rust Mite, Brown Citrus Rust Mite, Bud Mite, Moss, Lichens	QLD, NSW, ACT, VIC, SA, WA only	400 to 500 g	Apply during July to August. Leave at least 3 weeks between sprays of oil and product
	Melanose			In NSW, when applied late August will assist control.
	White Louse Scale	NSW, ACT, WA only	200 to 300 g	May be added to copper spray at petal fall or applied separately during Spring or Autumn.
Grapes Vines	Vine Mite, Grapeleaf Blister Mite	All states	500 g	Apply as a dilute spray before sprouting. Ensure thorough coverage
	Powdery Mildew (<i>Oidium</i> spp.), Mites		200 to 600 g	Use rates to the upper end of the rate when disease pressure is high and/or a higher degree of control is required. Ensure thorough coverage. Apply immediately after budburst, then every 14 to 21 days or as required. Crop phytotoxicity may occur when application occurs during hot or humid conditions or when the target crop is suffering from moisture stress. DO NOT apply during the heat of the day. Use rates to the lower end of the rate range when warm conditions are present at and immediately after application. Ensure thorough coverage
Kiwifruit	Two-spotted Mite (<i>Tetranychus urticae</i>)	NSW, WA, ACT only	150 to 200 g	Spray only when pest is present. Repeat application only when necessary. DO NOT apply during hot weather.
Mangosteens, Rambutans	Powdery Mildew, Mites	ALL STATES	400 g	Apply as a foliar spray. Spray when pests or disease are present. Repeat application only when necessary. DO NOT apply during hot weather.
Stone Fruit (except apricots)	Rust (<i>Tranzchelia discolor</i>)	NSW, VIC, TAS, SA, ACT, WA only	200 g	Apply about 4 weeks after petal fall or at petal fall (in QLD only) and at intervals of 3-4 weeks until mid-late January. Use the lower rate for greater incidence of disease.
		QLD only	350 g	
	Brown Rot (fruit) (<i>Monilinia fructicola</i>), Blossom Blight (<i>Monolinia laxa</i>)	NSW, VIC, TAS, SA, only	200 g	Apply 4 weeks after petal fall then as cover sprays.
		QLD only	350 g	Apply at petal fall only
Pome fruit	Powdery Mildew (<i>Podosphaera</i>)	ALL STATES	400 g	Apply at least 2 sprays before blossom
		NSW, ACT, VIC, TAS,	200 to 300 g	Apply fortnightly after blossom. Use the lower rate if weather is hot and

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	<i>leucotricha</i>	SA, WA only		spraying sensitive varieties. DO NOT use on sulphur sensitive apple and pear varieties in hot weather. Also suppresses mite development.
	Powdery Mildew (<i>Podosphaera leucotricha</i>)	QLD only	350 g	
	Black Spot (Scab) (<i>Venturia</i> spp.)	VIC, TAS, SA only	200 g	
OTHER CROPS				
Vegetables (NOT cucumbers and rockmelons)	Bean Spider Mite (<i>Tetranychus iudeni</i>), Powdery Mildew, Rust (<i>Uromyces</i> spp.), Tomato Russet Mite (<i>Aculops lycopersici</i>), Two-spotted Mite (<i>Tetranychus urticae</i>)	VIC, TAS, SA, WA Only	200 g	Apply when pest or disease first seen and repeat as necessary. Crop phytotoxicity may occur when applications occur during hot conditions. DO NOT apply during the heat of the day.
	Bean Rust, Bean Spider Mite, Powdery Mildew, Rust (<i>Uromyces</i> spp.), Tomato Russet Mite	NSW, ACT only		
	Bean Rust, Powdery Mildew, Rust (<i>Uromyces</i> spp.), Tomato Russet Mite	QLD only	300g	
Ornamentals	Powdery Mildew, Two-spotted Mite	VIC, TAS, SA, WA only	200g	Apply when pest or disease first seen and repeat every 10 to 21 days.
		QLD only	350 g	
	Powdery Mildew	NSW, ACT only	200g	
Strawberries	Powdery Mildew	NSW, WA, ACT only	200 to 300g	Apply when the disease is first noticed then at 10 to 14 day intervals during humid weather.

CROP	DISEASE / PEST	STATE	RATE PER HA	CRITICAL COMMENTS
Tomatoes for processing	Bean Spider Mite (<i>Tetranychus iudeni</i>), Bean Rust (<i>Uromyces</i> spp.), Powdery Mildew, Tomato Russet Mite (<i>Aculops lycopersici</i>), Two-spotted Mite (<i>Tetranychus urticae</i>)	VIC, TAS, SA, WA only	2 kg/ha	Apply when pest or disease first seen and repeat as necessary. Crop phytotoxicity may occur when applications occur during hot conditions. DO NOT apply during the heat of the day.
	Bean Spider Mite (<i>Tetranychus iudeni</i>), Bean Rust (<i>Uromyces</i> spp.), Powdery Mildew, Tomato Russet Mite (<i>Aculops lycopersici</i>)	NSW only		

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

SULGRAN 80 WG Fungicide/Miticide acts as a protectant and must be applied before disease infection occurs. Good spray coverage is therefore essential.

RAINFALL

Rain within 3 hours following treatment may reduce effectiveness. Earlier re-treatment should be considered following sufficient rain.

MIXING

Partially fill the spray vat to about one quarter capacity and start vigorous agitation. Slowly add the required amount of SULGRAN 80 WG Fungicide/Miticide while continuing to fill the vat. DO NOT pre mix SULGRAN 80 WG Fungicide/Miticide. Maintain agitation at all times. Other water dispersible granules can be added in the same way but wettable powders must be premixed with water before being slowly added to the vat as slurry. Complete addition and mixing of SULGRAN 80 WG Fungicide/Miticide before adding emulsible concentrates (EC) or suspension concentrates (SC). DO NOT leave unused spray in the vat overnight. If leaves and fruit are hairy or waxy, or where the water is hard, add a non-ionic wetting agent at label recommendations for the product.

COMPATIBILITY

SULGRAN 80 WG Fungicide/Miticide may be tank mixed with most other insecticides, fungicides and foliar fertilisers. DO NOT mix with spraying oil or any formulation containing mineral oil. As formulations are subject to change, always check the compatibility of mixes at the intended use ratios in a small container prior to use. The use of any mixture is entirely at the user's risk.

FUNGICIDE RESISTANCE WARNING

For fungicide resistance management SULGRAN 80 WG Fungicide/Miticide is a Group M2 fungicide. Some naturally occurring individual fungi resistant to SULGRAN 80 WG Fungicide/Miticide and other GROUP M2 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 SULGRAN 80 WG Fungicide/Miticide and other GROUP M2 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, SULPHUR MILLS AUSTRALIA PTY LIMITED accepts no liability for any losses that result from failure of the SULGRAN 80 WG Fungicide/Miticide to control resistant fungi.

APPLICATION TREE AND VINE CROPS

Dilute Spraying

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 water to cover the crop to 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 100L 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 runoff) 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:

- i) Dilute spray volume as determined above: For example 2000L/ha
- ii) Your chosen concentrate spray volume: For example 500L/ha
- iii) The concentration factor in this example is:
 $4 \times$ (ie $2000L \div 500L = 4$)
- iv) If the dilute label rate is 200, then the concentrate rate becomes 4×200 , that is 800 g of concentrate spray.
 - The chosen spray volume, amount of product per 100L 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 the relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Crop Caution: Some fruits and plants are susceptible to injury from sulphur under certain climatic conditions. DO NOT use sulphur on any crop unless proven that it is safe in the locality. Avoid spraying under hot dry conditions above 25°C or under extremes of humidity or temperature. May injure crops grown under glass or when applied during periods of rapid growth. DO NOT spray cucumbers, rockmelons, apricots, raspberries, sulphur sensitive apple and pear varieties and other sulphur sensitive plants. Reduce the dosage to avoid scorching during hot dry months.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

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

Avoid skin contact and inhalation of spray mist.

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 (MSDS). A material safety data sheet for SULGRAN 80 WG Fungicide/Miticide is available from SULPHUR MILLS AUSTRALIA PTY LIMITED on request. Call Customer Service on (07) 300 300 00

CONDITIONS OF SALE

SULPHUR MILLS AUSTRALIA PTY LIMITED shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on SUMIL's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of SULPHUR MILLS AUSTRALIA PTY LIMITED Pty Ltd has any authority to add to or alter these conditions.

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APVMA APPROVAL NUMBER: 53479/60310

Batch number:

DOM: