

SulfoStar® DF

Wettable Sulphur Fungicide Spray

Active Constituent: 800 g/kg SULPHUR (S)

For the control of certain fungal diseases and mites in grapevines and other crops as per the DIRECTIONS FOR USE table.

GENERAL INSTRUCTIONS

FUNGICIDE RESISTANCE WARNING

SULFOSTAR DF is a member of the multi-site activity group

GROUP	Y	FUNGICIDE
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 of fungicides. For fungicide resistance management SULFOSTAR DF is a Group Y fungicide. Some naturally occurring individual fungi resistant to SULFOSTAR DF 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 SULFOSTAR DF 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, BASF Australia Ltd accepts no liability for any losses that may result from the failure of SULFOSTAR DF to control resistant fungi.

MIXING

Slowly pour the SULFOSTAR DF into the spray tank three-quarters filled with water, with the agitation system actively moving. Alternatively, premix in a bucket, by adding to the SULFOSTAR DF a quantity of water of at least half the volume of the SULFOSTAR DF, and stir immediately. Add this mixture to the bulk of the water in the spray vat with agitation running. If tank mixing with another product, always add SULFOSTAR to the spray tank first. Tank mixtures containing SULFOSTAR should not be left overnight before use. Apply spray mix immediately to avoid settling.

APPLICATION

Tree crops and vines

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:

$3 \times$ (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$)

At the dilute label rate of 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.
- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

WETTING AGENT

If leaves and fruit are hairy or waxy, or where the water is hard, add a non-ionic wetting agent at the approved label rate.

COMPATIBILITY

SULFOSTAR DF is compatible with most insecticides, fungicides and foliar fertilisers including Polyram® DF, thiram, ziram, Scala+, Mycloss+, carbaryl, azinphos, urea, Foliar Nitrophoska®, Wuxal+ Foliar Nutrient and Wuxal Calcium Foliar Nutrient.

SULFOSTAR DF is not compatible with oils or formulations containing mineral oil.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do NOT contaminate streams, rivers or waterways with this product or the used containers.

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PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Do NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Do NOT spray cucumbers, rockmelons or apricots as these plants exhibit low tolerance to sulphur.

Where there is a range of rates, apply the lower rate during the hot dry months to avoid scorching.

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. The special formulation of SULFOSTAR DF requires that the bag is kept sealed to prevent deterioration.

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 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.

RE-ENTRY PERIOD

SULFOSTAR DF is of low toxicity and irritancy, and therefore no specific requirements for re-entry into treated areas are indicated.

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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THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL

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DIRECTIONS FOR USE

RESTRAINTS: Do NOT apply within 3 weeks of an oil spray.
Do NOT mix with oils or formulations containing mineral oil.

TREE AND VINE CROPS				CRITICAL COMMENTS
<p>RATE In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application section.</p>				<p>For all tree and vine crop 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.</p>
CROP	PEST/DISEASE	STATE	RATE g/100 L	
Citrus	Citrus rust mite (<i>Phyllocoptruta oleivora</i>), brown citrus rust mite (<i>Tegolophus australis</i>), citrus bud mite (<i>Eriophyes sheldoni</i>)	Qld, NSW, Vic, SA, WA only	400 to 500	Spray July to August with thorough coverage. Do NOT use on citrus in hot weather. Use the higher rates for heavy infestations. Leave at least 3 weeks between sprays of oil and product.
	Citrus bud mite (<i>Eriophyes sheldoni</i>)	Tas only	200 to 300	
	Melanose	NSW, WA only		In NSW, application will assist in control.
	White louse scale (<i>Unaspis citri</i>)			May be added to copper spray at petal fall or applied separately during spring or autumn. Use the higher rate for heavy infestations.
Grapevines Table grapes	Grapeleaf blister mite (<i>Colomerus vitis</i>), vine mites	NSW, Vic, Tas, SA, WA only	500	Apply before sprouting. Ensure thorough coverage.
	Vine mites	Qld only		
	Powdery mildew (<i>Uncinula necator</i>)	NSW, Vic, Tas, SA, WA only	100 to 200	Apply immediately after budburst, then every 2 to 3 weeks or as required. Ensure thorough coverage.
Grapevines Table wine grapes only	Grapeleaf blister mite (<i>Colomerus vitis</i>), vine mites	NSW, Vic, Tas, SA, WA only	500	Apply at late budburst. During summer, build up of mites is checked by sulphur sprays for powdery mildew. An application immediately after picking may aid control in vineyards where mites are a severe problem.
	Vine mites	Qld only		
	Powdery mildew (<i>Uncinula necator</i>)	NSW, Vic, Tas, SA, WA only	200 to 600	Apply when shoots are 20 to 25 cm long and repeat at intervals of 10 to 14 days during humid weather. Use the higher rates when disease pressure is high and/or a high level of control is required. Crop phytotoxicity may occur when applications are made during hot conditions. Do NOT apply during the heat of the day. Use the higher rates early in the season before the temperatures rise. Do NOT apply more than 6 kg per hectare.
Kiwifruit	Twospotted mite (<i>Tetranychus urticae</i>)	NSW, WA only	150 to 200	Spray only when pest is present. Repeat application only when necessary. Do NOT apply during hot weather.
Mangosteen	Powdery mildew, mites	All States	400	Apply as a foliar spray. Spray when pests are present. Repeat applications only when necessary. Do NOT apply during hot weather.
Pome fruit	Powdery mildew (<i>Podosphaera leucotricha</i>)	All States	400	Apply at least 2 sprays before blossom.
		NSW, Vic, Tas, SA, WA only	200 to 300	Apply fortnightly after blossom. Use the lower rate if weather is hot and spraying non-sensitive varieties. Do NOT use on sulphur-sensitive apple and pear varieties in hot weather.
		Qld only	350	Also suppresses mite development.

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CROP	PEST/DISEASE	STATE	RATE g/100 L	CRITICAL COMMENTS
Pome fruit (continued)	Black spot (scab) (<i>Venturia</i> spp.)	Vic, Tas, SA only	200	Apply at pink bud, petal fall and then at intervals of 2 to 3 weeks. Do NOT use on sulphur-sensitive apple and pear varieties in hot weather. Also suppresses mite development.
		Qld only	350	
Rambutan	Powdery mildew, mites	All States	400	Apply as a foliar spray. Spray when pests are present. Repeat applications only when necessary. Do NOT apply during hot weather.
Stone fruit (except apricots)	Rust (<i>Tranzschelia discolor</i>)	NSW, Vic, Tas, SA, WA only	200 to 300	Apply about 4 weeks after petal fall or at petal fall (in Qld only) and at intervals of 3 to 4 weeks until mid to late January. Use the higher rate when disease incidence is high.
		Qld only	350	
	Brown rot (fruit) (<i>Monilinia fructicola</i>)	NSW, Vic, Tas, SA, WA only	200 to 300	Apply 4 weeks after petal fall then as cover sprays.
		Qld only	350	Apply at petal fall only.

OTHER CROPS

CROP	PEST/DISEASE	STATE	RATE g/100 L	CRITICAL COMMENTS
Ornamentals	Powdery mildew, twospotted mite (<i>Tetranychus urticae</i>)	Vic, Tas, SA, WA only	200 g/ 100 L	Apply when pest or disease first seen and repeat every 10 to 21 days.
		Qld only	350 g/ 100 L	
	Powdery mildew	NSW only	200 g/ 100 L	
Strawberries	Powdery mildew	NSW, WA only	200 to 300 g/ 100 L	Apply when the disease is first noted, then at 10 to 14 day intervals during humid weather.
Tomatoes for processing	Powdery mildew, bean rust, tomato russet mite, bean spider mite, twospotted mite	Vic, Tas, SA, WA only	2 kg/ha	Apply when pest or disease is 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.
	Powdery mildew, bean rust, tomato russet mite, bean spider mite	NSW only		
Vegetables (NOT cucumbers or rockmelons)	Powdery mildew, rust (<i>Uromyces</i> spp.), tomato russet mite (<i>Aculops lycopersici</i>), bean spider mite (<i>Tetranychus ludeni</i>)	Vic, Tas, SA, WA only	200 to 300	Apply when pest or disease first seen and repeat every 14 to 21 days. Use the higher rate in crops with a large leaf cover or when conditions favour disease and/or mite development. Do NOT apply during the heat of the day.
		NSW only	200	
	Twospotted mite (<i>Tetranychus urticae</i>)	Vic, Tas, SA, WA only	200 to 300	
	Powdery mildew, rust (<i>Uromyces</i> spp.)	Qld only	350	

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.

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