

# CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Kusabi<sup>®</sup> 300 SC FUNGICIDE

ACTIVE CONSTITUENT: 300 g/L PYRIOFENONE

**GROUP 50 FUNGICIDE**

*For the control of powdery mildew in cucurbits and grapes as specified in the Directions for Use table.*

Distributed by:  
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**Contents 5 L**

**DIRECTIONS FOR USE**

**RESTRAINTS**

**DO NOT** apply with aircraft.

**DO NOT** apply through any type of irrigation equipment.

**SPRAY DRIFT RESTRAINTS**

Except when applying with orchard/vineyard airblast equipment, **DO NOT** apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council Guideline.

**DO NOT** apply when wind speed is less than 3 or more than 20 kilometres per hour as measured at the application site.

**DO NOT** apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application, and must **KEEP** this record for at least 2 years.

The spray application details that must be recorded are:

1. date with start and finish times of application;
2. location address and paddock(s) sprayed;
3. full name of this product;
4. amount of product used per hectare and number of hectares applied to;
5. crop or situation and weed or pest;
6. wind speed and direction during application;
7. air temperature and relative humidity during application;
8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application;
9. name and address of person applying this product.

(Additional record details may be required by the state or territory where this product is used.)

**MANDATORY NO-SPRAY ZONES: Not required when used as directed.**

**CUCURBITS**

<b>CROP</b>	<b>DISEASE</b>	<b>RATE</b>	<b>WHP</b>	<b>CRITICAL COMMENTS</b>
Cucurbits (field)	Powdery mildew ( <i>Podosphaera xanthii</i> )	300 – 500 mL/ha	-	<p>When conditions favour disease development, apply Kusabi® 300 SC Fungicide in a spray program with other fungicides at 7 to 10 day intervals. <b>DO NOT</b> wait for disease to appear. <b>DO NOT</b> use more than 3 applications of KUSABI 300 SC FUNGICIDE per crop. Ensure thorough spray coverage of plants using a spray volume of 250 to 800 L of water per hectare. Use the lower rate early in the season. The addition of Du-Wett* Low Volume Application Spreader will assist with spray coverage and performance of KUSABI 300 SC FUNGICIDE when using the 300 mL/ha rate. Refer to the Du-Wett Low Volume Application Spreader label for use instructions.</p> <p><b>CAUTION - Cucurbits</b> KUSABI 300 SC FUNGICIDE mixed with Du-Wett has demonstrated good crop safety, however, not all cucurbit crops have been tested with use of Du-Wett. As per the Du-Wett label, it is recommended to conduct a small scale crop safety test before treating a large area of cucurbits.</p>

**CUCURBITS continued**

<b>CROP</b>	<b>DISEASE</b>	<b>RATE</b>	<b>WHP</b>	<b>CRITICAL COMMENTS</b>
Cucumbers (protected cropping)		50 mL/100 L		When conditions favour disease development, apply KUSABI 300 SC FUNGICIDE in a spray program with other fungicides at 7 to 10 day intervals. DO NOT wait for disease to appear. DO NOT use more than 3 applications of KUSABI 300 SC FUNGICIDE per crop. Ensure thorough spray coverage of plants by applying up to the point of run-off.

**GRAPEVINES**

<b>RATE:</b> In the following table rates are given for dilute spraying. For concentrate spraying refer to the Application section.			<b>CRITICAL COMMENTS:</b> For uses in this table: Apply by dilute or concentrate spraying equipment. <b>Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</b>	
<b>CROP</b>	<b>DISEASE</b>	<b>RATE</b>	<b>WHP</b>	<b>CRITICAL COMMENTS</b>
Grapevines	Powdery mildew ( <i>Erysiphe necator</i> )	<b>Dilute Spray:</b> 30 mL/100 L  <b>Concentrate spray:</b> Refer to the Application section	5 weeks	When conditions favour disease development apply KUSABI 300 SC FUNGICIDE at 7 to 10 day intervals as part of a protectant disease management program. DO NOT wait for disease to appear. Use the shorter interval when infection pressure is high. Ensure thorough coverage of plants using a water volume appropriate to canopy size. DO NOT use more than 2 applications of KUSABI 300 SC FUNGICIDE per crop. KUSABI 300 SC FUNGICIDE should not be applied later than E-L 31 (berries pea size) when grapes are to be used to make wine for export.

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

**WITHHOLDING PERIODS**

**Cucurbits: NOT REQUIRED WHEN USED AS DIRECTED**

**Grapevines: DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION**

**Grazing: DO NOT GRAZE OR FEED TREATED CROPS TO ANIMALS**

**EXPORT OF TREATED PRODUCE**

Growers should note that suitable MRLs or import tolerances do not exist in all markets for produce treated with KUSABI 300 SC FUNGICIDE. In some situations export requirements may be met by limiting application number and/or imposing a longer withholding period than specified above. If you are growing produce for export, please check with AgNova Technologies Pty Ltd, your industry body or the Australian Wine Research Institute (AWRI) <http://www.awri.com.au/> for the latest information on MRLs and import tolerances and any potential trade issues and their management before using KUSABI 300 SC FUNGICIDE.

KUSABI 300 SC FUNGICIDE should not be applied later than E-L 31 (berries pea size) when grapes are to be used to make wine for export. Contact your winery or AWRI for the updated information on MRLs and overseas tolerances BEFORE using KUSABI 300 SC FUNGICIDE.

## **GENERAL INSTRUCTIONS**

### **Mixing**

Fill minimum 50% of the required water into the spray tank, and agitate when adding the required amount of KUSABI 300 SC FUNGICIDE. Finally add the rest of the required water volume. Keep the spray solution agitated until all product is applied. Never prepare more spray solution than required.

Triple rinse empty product container and add the rinsings to the spray solution.

### **Application**

#### ***Dilute Spraying***

Use a sprayer designed to apply high spray 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 (Grapevines Only)***

Use a sprayer designed and set up for concentrate spray (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

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 concentrate factor in this example is 3X (ie.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
4. If the dilute label rate is 30 mL/100 L, then the concentrate rate becomes  $3 \times 30$ , which is 90 mL product per 100 L 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 50 FUNGICIDE**

KUSABI 300 SC FUNGICIDE is a member of the actin disruption group of fungicides. For fungicide resistance management KUSABI 300 SC FUNGICIDE is a Group 50 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 50 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 the product or other Group 50 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, ISK Biosciences Oceania Pty Ltd and AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

### **COMPATIBILITY**

For information on the compatibility of KUSABI 300 SC FUNGICIDE with other products, contact your local AgNova Technologies Pty Ltd representative.

**PROTECTION OF LIVESTOCK**

DO NOT graze or feed treated crops to animals.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

**PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

DO NOT apply under weather conditions, or from spraying equipment that may cause drift onto nearby plants/crops, cropping lands or pastures.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

**SAFETY DIRECTIONS**

May irritate the eyes. Avoid contact with eyes. If applying by spraying equipment carried on the back of the user wear cotton overalls, over normal clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

**FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766.

**SAFETY DATA SHEET**

If additional hazard information is required refer to the Safety Data Sheet. For a copy visit our website at [agnova.com.au](http://agnova.com.au)

**CONDITIONS OF SALE**

ISK Biosciences Oceania Pty Ltd and AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of ISK Biosciences Oceania Pty Ltd and AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of ISK Biosciences Oceania Pty Ltd and AgNova Technologies for any breach of such statutory warranty or condition is so limited.

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\*Du-Wett is a registered trademark.

Additional statements as required by Safe Work Australia in accordance with the Globally Harmonised System of Classification and Labelling (GHS).

**May cause an allergic skin reaction**

In a transport emergency dial 000, Police or Fire Brigade.  
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

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