

#### CLEANING SPRAY EQUIPMENT

After using QUINFEN 250 SC Fungicide empty the spray tank and completely drain the system. Rinse the tank, pumps, lines, hoses, filters and nozzles by circulating clean water through the system. Drain and repeat the rinsing procedure twice.

#### FUNGICIDE RESISTANCE WARNING

Farmalinx  
QUINFEN 250 SC **GROUP 13 FUNGICIDE**

Fungicide is a member of the quinoline group of fungicides. For fungicide resistance management the product is a Group 13 Fungicide, which interfere with spore germination and appressoria formation. Some naturally occurring individual fungi resistant to the product and other Group 13 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 this product or other Group 13 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, Farmalinx Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi. Since QUINFEN 250 SC Fungicide has a unique mode of action, it will control powdery mildew that may be resistant to fungicides from groups with other modes of action. To help prevent the onset of resistance DO NOT apply more than three applications of QUINFEN 250 SC Fungicide or any product containing an active ingredient from the same class or mode of action group, to any grapevine crop in any one season.

#### PRECAUTIONS

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

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

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

#### STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Do not store near food, feedstuffs, fertilisers or seed. Triple or preferably

pressure rinse containers before disposal. Add rinsings to 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 for appropriate disposal 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.

#### SMALL SPILL MANAGEMENT

Wear appropriate clothing whilst cleaning up spills. Clear area of all unprotected personnel. Apply material such as earth, sand, cat litter or clay granules to absorb the spill. Sweep up material and contain in a refuse vessel for disposal. Prevent entry of chemical or used/damaged containers into drains, streams or waterways. Disposal of the contaminated material must be done in accordance with State and/or Local regulations. See **STORAGE AND DISPOSAL** for disposal of water used for cleaning spray equipment.

#### SAFETY DIRECTIONS

Repeated exposure may cause allergic disorders. When opening the container and preparing spray, wear elbow-length PVC gloves. 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.

#### MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX QUINFEN 250 SC FUNGICIDE is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 9389 2455.

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty ( other than non-excludable statutory warranties ) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Farmalinx Pty Ltd or under abnormal conditions. FARMALINX Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

## READ SAFETY DIRECTIONS BEFORE OPENING OR USING

FARMALINX

# Quinfen 250 SC

## FUNGICIDE

ACTIVE CONSTITUENT: 250 g/L QUINOXYFEN

**GROUP 13 FUNGICIDE**

*For use as a protectant against powdery mildew in grapevines as specified in the Directions for Use table.*

**IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT.**

## DIRECTIONS FOR USE

Crop	Disease	Rate	Critical Comments
Grapes	Powdery mildew ( <i>Uncinula necator</i> )	<b>Dilute Spraying :</b> 10-20 mL/100 L water  <b>Concentrate Spraying:</b> Refer to the Mixing/ Application Section	Use as a protectant treatment only. QUINFEN 250 SC Fungicide has no curative activity and water does not control existing infection (powdery mildew between infection and visible stage). Use 10 mL rate as part of a protectant spray program. Retreat at every 7-10 days as necessary. Use 20mL rate during periods when high or sustained infection pressure is expected. Retreat every 10-14 days as necessary. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the vines whether applied by either method.

**DO NOT** use more than 3 applications to any vine crop in any one season.

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

### WITHHOLDING PERIODS:

#### HARVEST WITHHOLDING PERIODS:

#### STOCKFOOD WITHHOLDING PERIOD:

#### GRAPES FOR EXPORT WINE:

#### DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

#### NOT REQUIRED WHEN USED AS DIRECTED

#### REFER TO THE AWRI WINEGRID

### MIXING

Agitate or shake the container vigorously prior to use. The required amount of QUINFEN 250 SC Fungicide should be added to a half-full spray tank and agitated well during completion of filling. Ensure constant and thorough agitation by mechanical or hydraulic action during mixing and application. DO NOT leave spray solutions to stand overnight.

### STORAGE OF DILUTED SPRAY MIX

Whenever possible use the spray mix immediately after it is prepared. However if undesirable weather conditions or mechanical breakdown occur, the stored spray mix may be used up to 6 hours after initial mixing. Ensure regular agitation by mechanical or hydraulic action to thoroughly remix every 3 hours.

## APPLICATION

For volumes of, or greater than, 1000 L/ha, use the dilute spray rate. If volume to be applied is less than 1000 L/ha then use the concentrate spraying application method. Application volume will vary with vine growth stage, canopy density, pruning regime and crop vigour. For best results follow the recommendations below:

### DILUTE SPRAYING APPLICATION:

- 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 first 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 in the tank. 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.
- Through coverage of the grapevines and bunches is essential.

### CONCENTRATE SPRAYING APPLICATION

- 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. Consult your local advisor, agronomist or Department of Agriculture to determine this volume. 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:  $3 \times$  (ie, 1500 L/500 L = 3)

4) If the dilute label rate is 10 mL/100 L (low QUINFEN rate), then the concentrate rate becomes  $3 \times 10$ , ie 30mL/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.

### UNIT CANOPY ROW (UCR) APPLICATION

Another method for determining the amount of product to spray is called the **unit canopy row method**. This method is not based on planted area (rate/ha) or row spacing but considers the width and height of the foliage to determine the appropriate volume to apply either as a dilute spray or a concentrate spray. The applied volume per hectare increases as row spacings become smaller and canopy sizes increase. This method of application is described in a Fact Sheet (Agdex 210/744, June 2000 by Geoff Furness and Peter Magarey) obtainable from SARDI Loxton Centre. For further information on how to apply this method, contact your local advisor, Department of Agriculture staff, the factsheet above or the authors.

### COMPATIBILITY

QUINFEN 250 SC Fungicide is NOT compatible with fungicides containing fosetyl as the aluminium salt. However QUINFEN 250 SC Fungicide is compatible with a range of products as follows: -

### Insecticides

MVP\* II Bio-encapsulated Insecticide (*Bacillus thuringiensis*), chlorpyrifos 750 g/kg WG, Success Naturalyte® Insect Control and Mimic® 700 WP.

### Miticides

Pyridaben and tebufenpyrad

### Fungicides

SPARTACUS, benomyl, CHLORNIL, copper hydroxide, copper oxychloride, dithianon, MANZEB, dimethomorph+mancozeb mixture, (PRINE, Rubigan® (fenarimol), METAPRIS, spiroxamine, pyrimethanil, sulphur and thiram.

### RAINFASTNESS

QUINFEN 250 SC is rainfast one hour after application.