

# SUNNY®

PLANT GROWTH REGULATOR

ACTIVE CONSTITUENT: 50 g/L UNICONAZOLE-P

**A plant growth regulating material for use on avocados to enhance fruit shape, increase fruit size and reduction in vegetative growth.**

## GENERAL INSTRUCTIONS:

SUNNY is a plant growth regulator that acts by influencing gibberellin production. Its use will result in enhanced fruit shape (less necky fruit) and increased average fruit size. In well managed, healthy orchards an increase in total yield may result.

### Orchard Management:

1. Do not apply SUNNY to trees that have shed more than 15% of their leaves when flowering as it is likely that these trees have a significant level of Phytophthora infection.
2. Harvest the SUNNY-treated trees as soon as the fruit reaches maturity as "hanging" fruit will continue to accumulate oil to the detriment of flowering and cropping the following season.
3. Maintain optimum growing conditions and good orchard management to minimise stress and alternate bearing.

## MIXING INSTRUCTIONS:

**Water pH and hardness:** SUNNY should not be applied in alkaline water or hard water (>1000mg/kg solutes). Where necessary use a buffer agent to reduce pH to between 4.5 and 5.5. Balance NP Buffer can be used to reduce water pH and soften water. Balance NP Buffer will also act as a foliar fertilizer which may aid in the uptake of SUNNY. **Shake container well before use.** Half fill the spray tank with clean water and whilst constantly agitating add the required amount of SUNNY. Thereafter, add the wetting agent and, if required, Balance NP Buffer. Fill the spray tank to the required level with water while agitating. Ensure vigorous agitation of the mixture in the tank during mixing and spraying. DO NOT allow spray mixture to stand for prolonged periods.

## APPLICATION

SUNNY is ideally applied during wind free and high humidity conditions - preferably in the early morning or late afternoon. SUNNY should be applied to trees at mid bloom i.e. when 50% of the flowers on the tree have opened. This will mean that 70% of flowers will have opened on the northern side of the tree and 20% on the southern side. There should be no more than 10% of the vegetative terminals growing at the time of application. Failure to apply SUNNY at the correct timing can give a poor result.

Direct spray so that it reaches the green vegetative growing points:

- 65% of spray volume should be aimed at the top 1/3 of the tree
- 25% of spray volume should be aimed at the centre 1/3 of the tree
- 10% of spray volume should be aimed at the bottom 1/3 of the tree

### 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 wetness, avoiding 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 point of wetness, avoiding run-off. Soil contamination should be prevented.
- 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 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 spraying volume: **for example** 500 L/ha
3. The concentration factor in this example is: 3 X (that is, 1500 L ÷ 500 L = 3)
4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 X 10, that is: 30 mL/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.
- Do not use a concentrate rate higher than that specified in the Critical Comments.
- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

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

Do not contaminate streams, rivers, waterways or dams with the chemical or used containers. Do not allow the chemical to contact other crops, pastures or desirable vegetation.

## STORAGE:

Keep out of reach of children. Store in the closed original container in a well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight.

## DISPOSAL:

Triple, or preferably, pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemical on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or 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.

## SAFETY DIRECTIONS:

Will irritate the eyes. Avoid contact with eyes. Wash hands after use. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and 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 (Telephone: 13 11 26)

## MATERIAL SAFETY DATA SHEET:

Additional information is listed in the Material Safety Data Sheet (MSDS).

## EXCLUSION OF LIABILITY:

Unless otherwise expressly stated in writing neither Sumitomo Chemical Australia Pty Ltd nor the distributor has any knowledge of the particular use to which the buyer proposes to put this product. In purchasing this product the buyer must rely solely upon their own skill and judgement as to its suitability for the particular purpose for which it is required. Except to the extent that exclusion or denial of liability is prohibited under the Trade Practices Act or any relevant state legislation, Sumitomo Chemical Australia Pty Ltd and the distributor expressly exclude any warranty as to the quality or fitness of any goods sold for any purpose whatsoever and deny all responsibility in contract tort negligence or otherwise for any harm or damage resulting from the use of such goods or from acting on the advice or recommendations as to such use given in good faith by any representative of Sumitomo Chemical Australia Pty Ltd or the distributor. If these conditions are unacceptable to the buyer, the goods should be returned to Sumitomo Chemical Australia Pty Ltd unopened within seven (7) days for refund of purchase price.

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50806/5L/0606

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

In a Transport Emergency  
**Dial 000**  
Police or Fire Brigade

**SPECIALIST ADVICE  
IN EMERGENCY ONLY  
ALL HOURS - AUSTRALIA WIDE  
1800 024 973**

**DIRECTIONS FOR USE:**

**RESTRAINTS: DO NOT use on avocado trees that are under stress from disease, lack of moisture or nutritional deficiencies.**

SITUATION	PURPOSE	RATE	CRITICAL COMMENTS
Avocados	To enhance fruit shape and increase average fruit size.  Reduction in vegetative growth.	<b><u>Dilute Spraying</u></b> Apply SUNNY as a foliar spray at the rate of 0.5 to 1L /100L plus Agral* non-ionic wetting agent at 0.05%.  <b><u>Concentrate Spraying</u></b> Refer to Application section.	Apply at mid bloom i.e. when 50% of flowers have opened. (See additional notes under Application) Do not apply to trees where symptoms of Phytophthora root rot are present. See Orchard Management in General Instructions.  Growing conditions can affect plant response to this product, i.e. day length, temperature, water regime, seasonal factors etc.  Dose rate will depend on factors such as uniformity of flush, tree vigour etc and growers should consult Sumitomo Chemical or their SUNNY supplier before deciding on the dose rate applicable to their orchard.  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.

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

**WITHHOLDING PERIOD:** DO NOT harvest fruit for 14 days after application.