



Parasol-O assists in the reduction of damage due to solar exposure by forming a reflective particle barrier on susceptible crops when applied throughout the growing season.

Contains: 1044g/L Calcium carbonate



Cert. No: 8140M

CONTENTS: 10L

DIRECTIONS FOR USE

Restraints:

Do not use on produce where any post-harvest residue is undesirable unless prior testing has established a process for the complete removal of Parasol-O residue.

Do not apply as a dilute spray to orchards, tree crops and grapevines.

Crops	Rate (dilute)	Critical Comments
Pome and Stone fruits (except cherries), Citrus, Tree nuts, Olives	1L/100L water for initial application and 0.5L/100L water for subsequent applications	Apply the first spray before temperatures reach 30°C OR preferably when fruit size is around 20mm in diameter for Citrus, Pome and Stone Fruits; and 5 to 10mm diameter for Nuts and Olives. Use a spray volume of approximately half that of dilute ie. 2X concentration (application at 2X will require 2L of Parasol-O per 100L water). Ensure that the spray nozzles are directed to provide a thorough coverage of the fruit. Apply a second application 7 to 14 days after the first application. Subsequent applications should be made at 1 to 3 week intervals or as required to maintain coverage of the fruit.
Cherries	<p><u>Pre-harvest</u> 1L/100L water</p> <p><u>Post-harvest</u> 2.5L/100L water</p>	<p>Use a spray volume of approximately half that of dilute ie. 2X concentration (application at 2X will require 2L of Parasol-O per 100L water). Ensure that the spray nozzles are directed to provide a thorough coverage of the fruit and foliage.</p> <p>Pre-harvest: Apply the first application 30 days prior to expected harvest and a follow-up application 14 days prior to harvest. DO NOT tank mix with any other products.</p> <p>Post-harvest: Apply directly to foliage within 7 days of harvest. A second application should be made 14 days after the initial application.</p>

Grapevines	<u>Berries</u> 2L/100L water	Protection of berries: To protect the berries from sunburn, apply the first application prior to temperatures exceeding 30°C OR before the berry size exceeds 10mm (E-L31 ie. early bunch closure). Use a spray volume of approximately half to one third that of dilute ie. 2X to 3X concentration. Direct the spray to target the berries only, so that approximately 30% of the vine area will be treated. Subsequent applications should be made at 2 to 3 week intervals or as required to maintain a protective coverage on berries. To assist with the coverage of berries Vitiwet® should be added at 10mL/100L.
	<u>Foliage</u> 2L/100L water	Protection of foliage: Apply the first spray before temperatures reach 30°C. Apply to the whole canopy using a spray volume of half to one third of the dilute volume required for the target ie. 2X to 3X concentration. Subsequent applications should be made as required to maintain the original level of protective coverage on the foliage. DO NOT add a wetter.
Tropical and subtropical tree crops including: Avocado, Banana, Mango, Lychee, Guava, Paw Paw	1L/100L water for initial application and 0.5L/100L water for subsequent applications	Protection of fruit: Apply the first spray before temperatures reach 30°C. Use a spray volume of approximately half that of dilute ie. 2X concentration (application at 2X will require 2L of Parasol-O per 100 L). Ensure that the spray nozzles are directed to provide a thorough coverage of the fruit. Apply a second application 7 to 14 days after the first application. Subsequent applications should be applied at 1 to 3 week intervals or as required to maintain coverage of the fruit. Addition of a wetting agent such as Shirwet® 600 may assist coverage on waxy fruit surfaces. Protection of foliage: Apply the first spray before temperatures reach 30°C. Addition of a wetting agent such as Shirwet 600 may assist coverage on waxy leaf surfaces. Apply a second application 7 to 14 days after the first application. Subsequent applications should be applied at 1 to 3 week intervals or as required to maintain coverage of the leaves.
Vegetable crops including: Capsicums, Tomatoes, Potatoes, Onions, Cucurbits, Lettuce	<u>Season long:</u> 6.25L/ha beginning just prior to flowering. Re-apply at 7 to 14 day intervals. <u>Late season:</u> 20L/ha for first application and 10L/ha for subsequent applications	Capsicums, tomatoes and cucurbits: Apply the first spray before temperatures reach 30°C and/or just after picking when foliage has been disturbed leaving fruit exposed to the sun. Subsequent sprays should be applied every 7 to 10 days or as required to give adequate coverage. When spraying immediately after picking, a higher rate of 20L/ha should be used. Potatoes and onions: Apply before sun damage can occur.

Seedlings	10L/100L for first two applications and 2.5L/100L for subsequent applications	Apply the first application just prior to transplanting. Apply a second application immediately after transplanting. Subsequent applications can be made to protect the seedlings from sun damage using the lower rate.
Pineapples	20L/ha for first application and 10L/ha for subsequent applications	Apply the first spray before temperatures reach 30°C. The first application should be applied approximately 10 weeks after fruit initiation. Apply 20L of Parasol-O/ha in 1,000 to 2000L of water for the first application. Subsequent applications should be applied every 14 to 21 days to ensure good coverage of the crop. 10L/ha in 1,000 to 2000L of water may be sufficient for subsequent applications but the rate should be adjusted to maintain the original level of coverage.
Nursery and Ornamental plants	2.5L/100L for first application and 625mL/100L for subsequent applications	Apply the first spray before temperatures reach 30°C. Subsequent sprays should be applied every 7 to 10 days or as required to maintain adequate coverage on the plant.
Cotton and Peanuts	20L/ha	Apply the product before sun damage causes heat stress and related problems or before the temperature reaches 30°C. Applications should be made every 7 to 14 days or as required to maintain the original cover.

GENERAL INSTRUCTIONS

Parasol-O is a calcium carbonate liquid that will assist in the reduction of damage on produce, leaves and bark due to sun and heat exposure. Parasol-O may be used on crops that are susceptible to damage from excessive UV and IR (heat) exposure. Parasol-O allows sufficient light through for normal photosynthesis and fruit colouring. Parasol-O is sprayed directly on to the produce forming a dry, white film. Thorough and uniform coverage is essential during periods of heat stress. Small scale testing is recommended for all alternative crops to determine crop safety before general use. Parasol-O applications result in a thin film of protection which does not discolour crops to the extent seen with kaolin based products.

Application Timing

Applications should commence in the crop before daytime temperatures start to exceed 30°C. For best results apply this product in early morning or late evening. Application should preferably be made when the ambient air temperature is between 5 and 25°C.

Mixing

Fill the spray tank to 50% capacity and add Parasol-O while running the spray agitation system then continue filling the tank. Maintain agitation throughout mixing and application.

Compatibility

Parasol-O is compatible with most agricultural chemicals but NOT with Oils or Phosphate fertilisers. Parasol-O should not be applied with Du-Wett®. While Parasol-O displays good compatibility it is advisable to apply the product alone as the target of application is different to that of many other insecticide and fungicide products ie. the product should be applied to the areas where sunburn and heat stress are of most concern on the top of plants. If mixing with other products, a jar test should be conducted first to check the compatibility of the ingredients. Parasol-O should be treated as a suspension concentrate to determine order of mixing. DO NOT add products in water soluble packaging to the spray tank.

Concentrate Spraying (Orchards, Tree crops and Vines)

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 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 1000L/ha.
2. Your chosen concentrate spray volume: For example 500L/ha.
3. The concentration factor in this example is: 2X (ie. $1000\text{L}/500\text{L} = 2$).
4. If the dilute label rate is 1L/100L, then the concentrate rate becomes $2 \times 1\text{L}$, that is 2L/100L 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 relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Ground Application

Air blast, high pressure handgun or boom sprayers provide the best results.

Coverage to the surfaces which are directly exposed to sunlight is critical for product performance. Heavy rain, new growth or wind erosion may reduce film quality. Apply to re-establish coverage after heavy rain as soon as the foliage is dry.

Aerial Application

For best results Parasol-O should be applied at a rate of 20L/ha in a total spray volume of approximately 50 to 75L/ha.

Post Harvest Packing and Residue Removal

Parasol-O residues are relatively easy to remove by washing, wiping or brushing the produce. Care is required to remove residue from hard to reach areas such as the stem end and calyx. Modifications to the packing-line brushing system may be required to improve residue removal. Adjusting the dump tank pH to below 5.0 may also assist in removing residue but is not essential. Adjuvants may also assist, please consult a Crop Care representative for further detail.

ENVIRONMENTAL HAZARDS

Do not contaminate streams, rivers or waterways with the chemical or used containers. Do not contaminate water when disposing of equipment wash water.

STORAGE AND DISPOSAL

Do not store at temperatures below 0°C.

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace lid 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

May cause moderate eye irritation. Avoid contact with eyes. May cause irritation to the respiratory system. Avoid breathing mist. A mist filtering respirator should be worn in the event of possible exposure to mist during application. A dust filter and goggles is recommended for

workers re-entering treated fields to conduct activities involving significant foliar contact and especially when plants are shaken during harvest. After use, wash hands, arms and face thoroughly with soap and warm water. Remove and separately wash contaminated clothing before reuse.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If in eyes, hold eyes open and flood gently with water.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from your supplier or from the Crop Care website: www.cropcare.com.au

Conditions of sale

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