



READ SAFETY DIRECTIONS BEFORE OPENING OR USING

GRANDEX[®]

BIOLOGICAL INSECTICIDE

ACTIVE CONSTITUENT: 3 X 10¹³ granula /L CYDIA POMONELLA GRANULOSIS VIRUS
A BIOLOGICAL AGENT TO CONTROL CODLING MOTH AND ORIENTAL FRUIT MOTH
IN POME AND STONE FRUITS

IMPORTANT: READ PRODUCT INFORMATION UNDER LABEL BEFORE USE



CONTENTS

- 1 L
- 5 L

ORGANIC CROP PROTECTANTS PTY LTD
 61 Turrella St, Turrella NSW 2205 Australia
 Telephone: 1800 634 204
 www.ocp.com.au
 ACN 003 149 719

GENERAL INSTRUCTIONS

Where heavy infestations of Codling moth or Oriental fruit moth are present in orchards, young larvae can still cause considerable damage on the surface of the fruits, before being killed by the virus. Correct application of Grandex will result in high mortality of larvae in even high density populations. If used to treat all generations in consecutive seasons, especially over large areas, large reductions in Codling moth and Oriental fruit moth populations will be achieved.

Grandex should be used as part of an integrated pest management strategy. Other compatible methods such as pheromone mating disruption dispensers can be used to reduce the population to levels where damage can be better managed by Grandex. Other compatible methods such as pheromone mating disruption dispensers can be used to complement the control achieved by applications of Grandex.

To assist in reducing migration of mated female moths into the treated area, it is highly advisable to clean up any accessible areas where refuges of untreated moths may be harbouring, e.g. fruit trees not receiving any pesticide treatment to control larvae, packing sheds or any areas with fruit that could contain Codling moth or Oriental fruit moth larvae.

MIXING

Grandex mixes readily with water for application.

COMPATIBILITY

Do not mix with pesticides that have a pH of less than 5.0 or greater than 8.5 in solution as the virus may be deactivated.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container out of direct sunlight. The product can be stored for short periods (14 days) at room temperature. For long term storage (2 years) keep refrigerated at less than 5°C.

Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemical on site. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. When opening the container and preparing the spray, wear elbow-length chemical-resistant gloves and goggles or safety glasses. Wash hands after use.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre (Ph. 131126).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

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APVMA Approval Number: XXXX/XXXX

Batch: **DOM:**

Expiry: 2 years from DOM when stored at less than 5°C.



Job OCP375_Grandex_1 & 5L

Version

Size 270mm x 148mm

Barcode % 00%

Process

3

Colours

Spot

Flexo
Lytho
Gravure

29/04/15



Offset



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DIRECTIONS FOR USE

SPRAY DRIFT RESTRAINTS

DO NOT apply within 48 hours of expected precipitation or during heavy rainfall.

DO NOT disturb soil for 48 hours after application.

ONLY APPLY with orchard application spray equipment.

DO NOT apply when wind speed is less than 3 or more than 20 km 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 KEEP this record for a minimum of 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/situation and 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.) **DO NOT** apply when there are native forests, aquatic and wetland areas including aquacultural ponds or surface streams and rivers downwind from the application area and within the mandatory nospray zone shown below.

MANDATORY NO-SPRAY ZONE

DO NOT apply when there are native forests, aquatic and wetland areas including aquacultural ponds or surface streams and rivers within 40 m downwind from the application area.

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FIRST AID

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Crop	Pest	Rate (L/ha)	Critical Comments
Pome fruit	Codling moth (<i>Cydia pomonella</i>) Oriental fruit moth (<i>Grapholita molesta</i>)	7 mL / 100L (100 mL/ha)	Use 100 mL Grandex in 1500 - 2000 litres of water per hectare. High volumes will be required in older orchards with large trees to obtain proper coverage of fruit. Apply as a dilute spray to the point of runoff. Grandex mixes readily with water. Timing of applications is critical to ensure larvae are exposed to sufficient concentration of the virus. Make the first application from petal fall onwards when newly hatched codling moth and oriental fruit moth larvae are present in the orchard. This should be based on pheromone trap catches of codling moths in orchards. Larvae will be present within 4 weeks of moth catches. Alternatively, use the appropriate amount of 'degree days' for your area to determine egg hatch as recommended by your local advisor. Apply at 7 to 14 day intervals while codling moth larvae and oriental fruit moth are present. Use the shorter interval during periods of high sunlight intensity (long sunny days). Most areas of Australia will have 3 or more generations per season and so it is important to monitor for each generation. For areas where there is considerable generational overlap, regular applications will be required for maximum effect.
Stone fruit	Oriental fruit moth (<i>Grapholita molesta</i>)	7 mL / 100L (100 mL/ha)	Use 100 mL Grandex in 1500 - 2000 litres of water per hectare. High volumes will be required in older orchards with large trees to obtain proper coverage of fruit. Apply as a dilute spray to the point of runoff. Grandex mixes readily with water. Timing of applications is critical to ensure larvae are exposed to sufficient concentration of the virus. Make the first application when newly hatched Oriental fruit moth larvae are present in the orchard. This should be based on pheromone trap catches of Oriental fruit moths in orchards. Apply at 7 to 14 day intervals while Oriental fruit moth larvae are present. Use the shorter interval during periods of high sunlight intensity (long sunny days).

**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.