

# Madex™

BIOLOGICAL INSECTICIDE

ACTIVE CONSTITUENT: 3 x 10<sup>13</sup> granula /L *CYDIA POMONELLA* GRANULOSIS VIRUS

## A biological agent to control codling moth in pome fruits

### GENERAL INSTRUCTIONS

Where heavy infestations of codling 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 Madex will result in high mortality of codling moth larvae in even high density populations. If used to treat all generations in consecutive seasons, especially over large areas, large reductions in codling moth populations will be achieved.

Madex 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 Madex. Other compatible methods such as pheromone mating disruption dispensers can be used to complement the control achieved by applications of Madex.

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, eg fruit trees not receiving any codling moth pesticide treatment, packing sheds or any areas with fruit that could contain codling moth larvae.

### MIXING

Madex mixes readily with water for application.

### COMPATIBILITY

**DO NOT** mix with pesticides that have a pH of less than 5.0 or greater than 8.0 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, goggles and goggles or safety glasses. Wash hands after use.

### FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26).

### SAFETY DATA SHEET:

Additional information is listed in the Safety Data Sheet (SDS) which can be obtained from Sumitomo Chemical.

### IMPORTANT NOTICE

These goods are to be used only for the purpose and as specified on the label, and are not suitable for any other purpose. To the fullest extent permitted by law, we do not accept or bear any liability on any basis for any loss, damage, cost or expense, arising in any way, directly or indirectly, in connection with the goods.

™ Madex is a Tradename of Andermatt Biocontrol, Switzerland

APVMA Approval No.: 63025/0710

<b>THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL</b>	
In a Transport Emergency <b>Dial 000</b> Police or Fire Brigade	<b>SPECIALIST ADVICE IN EMERGENCY ONLY ALL HOURS - AUSTRALIA WIDE 1800 024 973</b>

## 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 weed/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 no-spray 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.

CROP	PEST	RATE
Pome fruit	Codling moth ( <i>Cydia pomonella</i> )	7 mL / 100L (100 mL / ha)
CRITICAL COMMENTS		
<p>Use 100 ml Madex 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. Add 50 g / 100 L water of sugar as a feeding stimulant. Apply as a dilute spray to the point of runoff. Madex mixes readily with water.</p> <p>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 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.</p> <p>Apply at 7 to 14 day intervals while codling moth larvae 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.</p> <p>The addition of Nu-Film 17 as a UV protectant at 50mL/100L, may enhance residual activity of Madex.</p>		

**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.**



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