

**Optimol<sup>®</sup>**

**Biological Insecticide Optimiser**

**ACTIVE CONSTITUENTS:**

**600 g/L SUGARS**

**175 g/L PETROLEUM OIL**

For application with Vivus<sup>®</sup> Max *Helicoverpa* Biocontrol to enhance its performance

Contents: 20, 50, 110, 200, 1000 Litres

Batch No.:

Date of Manu.:

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## Directions for use:

Insecticide Being Used*	Application Volume	Optimol Rate
ViVUS Max	Less than 100 L/ha	1 L/ha
	Greater than 100 L/ha	2 L/ha**

\*Always read the insecticide label before use

\*\* Higher rates can be used if required

**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**

## PRODUCT DESCRIPTION

Optimol is a blend of molasses (containing sucrose and inverted sucrose), sucrose and mineral oil designed to optimise the performance of the biological insecticide Vivus Max. It has no insecticidal properties on its own but when mixed with Vivus Max can provide improved spray coverage, along with higher mortality, increased residual control and faster speed of kill of *Helicoverpa* spp. larvae.

## GENERAL INSTRUCTIONS

Optimol should be used where enhanced performance of Vivus Max is required. Maximum control with Vivus Max will primarily be achieved by closely following its label directions.

Optimol may enhance performance of Vivus Max under certain conditions, including:

- Application during cooler conditions (<18°C) that may cause reduced larval activity and feeding (typical in winter crops such as chickpeas)
- High UV light conditions
- Hot, dry conditions during spraying that can cause droplet evaporation (where application cannot be delayed until conditions improve)
- When targeting high larval numbers or larvae at the larger end of the recommended size spectrum for Vivus Max (7 to 13 mm in length)
- Alkaline or unfavourable plant chemistry (as for cotton and pulses)

Optimol is thought to work in 3 key ways:

1. Improved spray coverage; this occurs from the oil component providing reduced droplet evaporation and improved droplet/plant contact
2. Increased initial uptake and infection; the sugars may act as a feeding stimulant and are also effective in separating virus particles – thereby increasing the number of infective units on the plant. Optimol may also alter the gut chemistry of feeding caterpillars, thereby increasing the activity of stomach acting biological insecticides (such as Vivus Max)
3. Improved residual activity; the sugars and oil combine to provide a more suitable micro-climate for biological insecticides on the plant surface, through acidification by the sugars, and the oil acting as an anti-oxidant and providing some UV protection

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**Mixing:** Shake the container well before use. Follow the mixing instructions on the Vivus Max label. Add the required amount of Optimol after mixing Vivus Max in the spray tank.

**Application:** Follow application directions on the Vivus Max label.

**Compatibility:** Refer to the compatibility guidelines on the Vivus Max label.

In water: Optimol is highly compatible with the majority of pesticides and fertilisers when mixed in water.

In ULV: For ULV application in oil, a three way mix of carrier oil, Vivus Max and Optimol is suitable for application using micronair nozzles. DO NOT mix other pesticides in this three way mixture.

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

Do not contaminate streams, rivers or waterways with the product, including via run-off, spray drift or disposal of used containers.

### **STORAGE AND DISPOSAL**

**Storage:** 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.

**Disposal:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted product 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 to an approved waste management facility. DO NOT burn empty container or packaging.

### **FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre (Phone 131126). If swallowed, do NOT induce vomiting. Give a glass of water.

### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet.

### **EXCLUSION OF LIABILITY**

This product as supplied is of a high grade and suitable for the purpose for which it is expressly intended and must be used according to the directions contained in this label. The user must monitor the performance of the product as climatic, geographical or biological variables may affect the results obtained. AgBiTech Pty Ltd accepts no responsibility in respect of this product except for those non-excludable statutory warranties implied by the Trade Practices Act or any State or Federal legislation.

• Optimol and Vivus Max are Trademarks of AgBiTech Pty Ltd

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APVMA Approval Number: 64627/56720

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