

MADEX® 3

A biological agent for the control of
Codling moth in Pipfruit

Active ingredient: Contains $3x10^{13}$ OB/L (*Cydia pomonella* granulovirus) in the form of a suspension concentrate (SC).

Registered pursuant to the ACVM Act 1997. No. P4397.
See www.foodsafety.govt.nz for registration conditions.
Approved pursuant to the HSNO Act 1996, Approval Code: HSR000809.
See www.epa.govt.nz for approval controls.

® **Madex** is a trademark of Andermatt Group AG, Switzerland.

Registrant: KEY Industries Limited
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Net Contents: 100 mL

Read label carefully before opening



Designed for biocidal action.
Do not apply directly onto or into water.
Precautions
Keep out of reach of children.
Avoid contact with skin and eyes and inhalation of spray mist.
Wash hands thoroughly after handling and using and before eating and smoking.
Product disposal: Dispose of to a suitable landfill.
Container disposal: Triple rinse container and add rinsate to spray tank. Recycle or crush and bury empty container in a suitable landfill.
Avoid contamination of any water supply with product or empty container.

Storage: Store the unused packs of Madex 3 at -18°C in a deep freezer or at 5°C in a fridge. Madex 3 should be used within 28 days if at room temperature.

Shelf life: When stored at -18°C this product should show no significant degradation for 4 years from the date of manufacture. When stored appropriately at 5°C this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this

Transport: The formulation of Madex 3 is very stable; therefore activity of the virus will not be reduced, if the product is transported without refrigeration.

DIRECTIONS FOR USE

It is an offence to use this product on animals.

General information
Madex 3 contains an insecticidal baculovirus of codling moth (*Cydia pomonella* granulovirus / CpGV). This virus is specific to larvae of the codling moth (*Cydia pomonella*) and has no harmful effects on humans, domestic animals, wildlife, beneficial insects and plants.

Mode of action: Madex 3 is a biological insecticide which must be ingested by larvae in order to be effective. Upon ingestion, the occlusion bodies (OBs) dissolve in the larval midgut which allows the infection of the larva. The larva stops feeding and eventually dies from massive viral infection and replication. After death, the larva may dissolve, releasing new OBs which may infect other codling moth larvae upon ingestion.

Application Rate: Use the high rate of 7 mL/100 L (applying 1500 L or more/ha) when applied for medium to high pest pressure. Use the lower rate of 3 mL/100 L for low to medium pest pressure or in combination with pheromone-based mating disruption and/or companion insecticide products. Use Madex 3 as part of a spray program, such as an IPM program. Apply as a dilute spray to the point of run-off.

The addition of an UV protectant such as Nu-Film 17 may improve the residual activity of Madex 3.

Timing: Make the first application when newly hatched codling moth larvae are present which is four weeks after large catches of moths are recorded in the codling moth pheromone traps around the time of petal fall. Repeat applications at 7-14 day intervals while the risk of codling moth damage is present. A second infestation of young caterpillars may occur in early autumn; four weeks after a summer peak of codling moth catches are recorded in pheromone traps.

Note: The use of Madex 3 in conjunction with pheromone mating disruption dispensers will generally improve the level of control, especially when heavy infestations of codling moth are likely to occur within or in the surrounding of the orchard. The application of Madex 3 in consecutive seasons has a cumulative effect in the reduction of the codling moth population.

RESISTANCE MANAGEMENT

GROUP	31	GRANULOVIRUS

Madex 3 contains *Cydia pomonella* granulovirus and is a GROUP 31 Granulovirus. Use Madex 3 as part of a spray program, such as an IPM program. Follow the label directions for use for application rates and timing of applications to avoid development of pest resistance. Only use the lower application rate if for low to medium pest pressure, or when in combination with pheromone-based mating disruption and/or companion insecticide products.

CONDITIONS OF SUPPLY

This product as supplied, is of high grade and suitable for the purpose for which it is expressly intended and must be used in accordance with the directions. The user must monitor the performance of any product as climatic, geographical or biological variables and / or developed resistance may affect the results obtained. No responsibility is accepted in respect of this product, save for those non-excludable conditions imposed by legislation.

Batch #:
Date of manufacture:

