

# Madex®

Reg. No. L7950, Act No. 36 of 1947

**GROUP 31 INSECTICIDE** READ THE LABEL BEFORE USE.  
KEEP OUT OF REACH OF CHILDREN & ANIMALS

Classification according to GHS: Not classified.

**A Granulovirus suspension concentrate formulation for the biological reduction of Codling moth larvae (CM) (*Cydia pomonella*) on apples and pears.**



- Prevent contamination of food, foodstuffs, drinking water and eating utensils.
- Clean applicator before and after use. Do not contaminate other crops, grazing, rivers, dams and areas not under treatment with water used to rinse the equipment.
- Store in original container in a dry area, away from food and feed stuffs.
- Use as soon as possible after sealed container is opened.
- May irritate skin and eyes.
- The active ingredient of Madex® consists of virus particles.
- During storage, and when in transit, it is important to keep the cold chain intact. With time and excessive high temperatures these virus particles, like most biological organisms, become less viable, leading to reduced efficacy.
- Madex® will remain viable for up to 24 months if stored in a cold room at 4°C.
- Do not leave the product or mixture standing in the sun.
- Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume filled with fresh water and pour the rinsing water into the spray or mixing tank. Puncture the triple-rinsed container and dispose via an Approved Collector or Recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties who may use it as a receptacle for food or beverages.

## RELEVANT SUBSTANCES

Ingredient	CAS Number	%
<i>Cydia pomonella</i> Granulovirus (CpGV)	Not assigned	< 1 (3 x 10 <sup>12</sup> OB/100 ml)
Non-hazardous co-formulants	Confidential	> 99

## FIRST AID

**Eye contact:** Most important acute symptoms/effects: eye irritation, redness, and excessive tears.

**IF IN THE EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical help.

**Skin contact:** Most important acute symptoms/effects: skin irritation, redness may occur. **IF ON SKIN:** Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical help.

**Inhalation:** Most important acute symptoms/effects: irritation of the upper airway, coughing may occur.

**IF INHALED:** Remove person to fresh air and keep comfortable. Get medical help if the person feels unwell.

**Ingestion:** Most important acute symptoms/effects: no symptoms or effects are known. **IF SWALLOWED:** Rinse mouth out with water for several minutes. Get medical help if the person feels unwell.

## RESISTANCE WARNING STATEMENT

Madex® is a Group Code 31 Insecticide.

Currently there is no known resistance to Madex® or the biological active.

## MODE OF ACTION

Madex® contains encapsulated virus particles that has to be ingested by the CM larva to be effective. Once ingested, the alkaline conditions in the CM midgut dissolves the protective capsule, activating the virus particle which infects and replicates in the insect, resulting in death of the infected larva.

## USE RESTRICTIONS

Madex® does not impose any risk of residues on harvested crops.

## DIRECTIONS FOR USE - Use only as directed COMPATIBILITY

Madex® contains virus particles and can be tank mixed with most insecticides as long as the pH is managed. Tank mixes with copper is not advisable.

## MIXING INSTRUCTIONS

- Shake container well before use.
- Fill spray tank with half the required water volume and start agitator mechanism.
- Check the pH of the water, ensure pH is neutral (not lower than 5 or higher than 8). Add buffer if required.
- Add the correct amount of product to the water in the tank at the recommended dose rate as per Registered Usages table.

## IMPORTANT POINTS TO REMEMBER

- Apply as a full-cover film spray using conventional spray equipment. Good coverage is essential.
- Due to UV sensitivity, it is recommended that Madex® is applied during the late afternoon or evenings.
- Madex® is a suspension concentrate and the occlusion bodies should be kept in suspension.
- Mixed volumes must be applied as soon as possible and not left standing overnight or in the sun.
- Do not apply incompatible insecticides with Madex®.
- Madex® does not impose any risk of residues in harvested crops. There is no withholding period.
- Optimum efficacy of this product is dependent on application timing. If unsure about timing, please consult the Registration Holder for advice.

## REGISTERED USAGES

### Application Guidelines:

Apply through conventional application systems as described in the mixing instructions. Madex® should be applied as a full cover film spray. Adult CM peaks can be detected using conventional pheromone monitoring traps.

Crops/Pest	Rates and Volume	Remarks
<b>Option 1: Targeting egg hatch after each Codling moth flight peak.</b>		
<b>Apples and pears</b> Codling moth ( <i>Cydia pomonella</i> )	100 ml/ha (7 ml per 100 L water)	<ul style="list-style-type: none"><li>• Apply as a full-cover spray during the late afternoon or evening.</li><li>• Start application when eggs start hatching.</li><li>• Repeat at 7 - 10 day intervals. Do not apply more than 4 applications per season.</li><li>• For optimum results combine Madex® with a mating disruption programme.</li><li>• If Madex® is used in an IPM programme target applications on first and second generations.</li><li>• Alternate with other registered products to comply with Insecticide Resistance Management (IRM) practices.</li><li>• Only use on 1<sup>st</sup> and 2<sup>nd</sup> generation larvae and when CM populations are low.</li></ul>
<b>Option 2: Targeting egg hatch after first Codling moth flight peak with weekly, reduced rate applications thereafter.</b>		
<b>Apples and pears</b> Codling moth ( <i>Cydia pomonella</i> )	First application at 100 ml/ha. Subsequent applications at min. 10 ml/ha on a weekly basis.	<ul style="list-style-type: none"><li>• Apply as a full-cover spray during the late afternoon or evenings.</li><li>• Start application when eggs start hatching.</li><li>• Repeat at 7-day intervals at a dose rate of 10 ml/ha.</li><li>• It is critical to continue with applications right up to harvest in order to maintain adequate virus concentration in the orchard.</li><li>• For optimum results combine Madex® with a mating disruption programme.</li><li>• Alternate with other registered products to comply with Insecticide Resistance Management (IRM) practices.</li></ul>

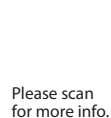
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Madumbi

BIO PEST MANAGEMENT

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**MANUFACTURED BY:**  
**Andermatt Biocontrol Suisse AG**  
Country of Origin: Switzerland  
Madex® is a Registered Trademark  
of Andermatt Group AG.

 **Andermatt**  
Biocontrol Suisse



Please scan for more info.



Please scan for more info.

See pack for details



Batch No.:  
Date of Manufacture:  
Expiry Date: 24 months from date of manufacture.  
UN No.: Not relevant  
Pack Size:

## WARNINGS

Microorganisms may have the potential to provoke sensitising reactions.

## PRECAUTIONS

### GHS Precautionary Statements

Wear protective gloves/protective clothing/eye protection.  
Do not eat, drink, or smoke when using this product.  
Wash hands and face thoroughly after handling. Do not touch eyes.  
Avoid inhalation of mist or spray.  
Dispose of the product in a responsible manner. Avoid direct incineration.

**DISCLAIMER:** Although this remedy has been extensively tested under a large variety of conditions, the Registration Holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label as well as by the methods, time and accuracy of application. The Registration Holder, furthermore, does not accept responsibility for damage to crops vegetation, the environment or harm to man or animals, the lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of registration. Please consult the Supplier in the event of any uncertainty.