

Registered and distributed by: Madumbi Sustainable Agriculture
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The driving force behind Sustainable Agriculture



Active ingredient

Cydia pomonella granulovirus (minimum 3×10^{10} occlusion bodies per ml.)

Precautions

- Avoid direct contact with eyes. In case of accidental contact immediately flush eyes with clean water.
- Wear protective clothing, rubber gloves and face shield when mixing.
- Avoid contact with skin, wash exposed hands before consuming food, drinking or smoking.
- Do not inhale spray mist. Do not eat, drink or smoke whilst mixing or applying.
- Wash hands with soap and cold water after application.
- 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 wash water.
- Store in original container in a dry area, away from food and feed stuffs.
- Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing water to the contents of the spray or mixing tank. Destroy the container, and do not use empty container for any other purpose.
- Use as soon as possible after sealed bottle is opened.

Caution / Warnings

- Keep out of reach of children, uninformed persons and animals.
- The active ingredient of Madex Twin contains virus particles. May cause skin and eye irritation. With time and excessive high temperatures these virus particles, like most biological organisms, become less viable leading to reduced efficacy.
- During storage, and when in transit, it is important to keep the cold chain intact.
- Madex Twin will remain viable for up to 42 months if stored in a cold room at 5°C.
- Do not leave the product or mixture standing in the sun.

For detailed application information, please refer to the enclosed instructions

Madex Twin®

Registration No.: L9781 Act No. 36 of 1947

A granulovirus suspension concentrate formulation for the biological reduction of Oriental Fruit Moth (*Grapholita molesta*) and Codling Moth (*Cydia pomonella*) larvae on Apples, Pears and Stone Fruit.

500 ml

Refer to lid for batch number.

Manufactured by

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Madex Twin

Reg. No. L9781 Act no. 36 of 1947

A Granulovirus suspension concentrate formulation for the control of Oriental Fruit Moth (*Grapholita molesta*) and Codling Moth (*Cydia pomonella*) larvae on Apples, Pears and Stone Fruit.

Active ingredient: *Cydia pomonella* granulovirus (CpGV) with a concentration of 3×10^{10} occlusion bodies per millilitre.

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Postnet suite 148, Private Bag X9118 Pietermaritzburg 3200
 Co reg. 2009/020798/07

CAUTIONS / WARNINGS

- Keep out of reach of children, uninformed persons and animals.
- The active ingredient of Madex Twin contains virus particles. May cause skin irritation and eye irritation.
- With time and excessive high temperatures these virus particles, like most biological organisms, become less viable leading to reduced efficacy.
- During storage, and when in transit, it is important to keep the cold chain intact.
- Madex Twin will remain viable for up to 42 months if stored in a cold room at 5°C and indefinitely if stored in a freezer.

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.

PRECAUTIONS

- Avoid direct contact with eyes. In case of accidental contact immediately flush eyes with clean water.

- Wear protective clothing, rubber gloves and face shield when mixing.
- Avoid contact with skin, wash hands with soap and cold water after application.
- Do not inhale spray mist. Do not eat, drink or smoke whilst mixing or applying.
- 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 wash water.
- Store in original container in a dry area away from food and feed stuffs.
- Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing water to the contents of the spray or mixing tank. Destroy the container, and do not use empty container for any other purpose.
- Use as soon as possible after sealed bottle is opened. Use before expiry date indicated on label.

DIRECTIONS FOR USE, USE ONLY AS DIRECTED

COMPATIBILITY

Madex Twin contains virus particles, it is therefore not advisable to mix in the same tank with commercially used chemical pesticides, unless recommended.

MIXING INSTRUCTIONS

- Shake container well before use.
- Fill spray tank with half the required water volume and start agitator mechanism. 200 – 1600 l/ha. This should be adjusted according to leaf area and spraying equipment.
- Add the correct amount of product to the water in the tank at the recommended dose rate.

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 Twin is applied during the afternoons or evenings. Do not leave product or mixture standing in the sun.
- Madex Twin 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 overnight or standing in the sun.
- Do not apply incompatible pesticides with Madex Twin.
- Madex Twin does not impose any risk of residues on harvested crops.

REGISTERED USAGES:

Crop / Pest	Dosage	Remarks
Apples, Pears and Stone Fruit	100 ml per Ha	<ul style="list-style-type: none"> • Only use on first and second generation larvae and when population of Codling Moth is low. • Apply as a full cover spray during the afternoon or evenings. • Start application when eggs start hatching (after biofix). • Combine with a mating disruption programme. • If Madex Twin is used in an IPM programme direct sprays to first and second generations. • Other registered products should be applied in the spray programme to comply with resistance management. <p>Programme:</p> <ul style="list-style-type: none"> • 1st Madex Twin application at a dose rate of 100 ml/ha applied as soon as target Lepidoptera eggs start hatching. • 2nd Madex Twin application at a dose rate of 100 ml/ha applied 10 - 14 days after the first application (8 full sunny days) • 3rd Madex Twin application at a dose rate of 100 ml/ha applied 10 - 14 days after the second application (8 full sunny days).
Codling Moth Larvae (<i>Cydia pomonella</i>) Oriental Fruit Moth Larvae (<i>Grapholita Molesta</i>)		<ul style="list-style-type: none"> • Continue with program until infestation levels are under control. • Alternatively: • 1st Madex Twin application at a dose rate of 100 ml/ha applied as soon as target Lepidoptera eggs start hatching. • 2nd Madex Twin application at a dose rate of 50 ml/ha applied 7 days after the first application. • 3rd Madex Twin application at a dose rate of 50 ml/ha applied 7 days after the second application. • Continue with program until infestation levels are under control.