Mainman®

An aphicide for the control of aphids in orchards (apple, pear and cherry).

Water dispersible granules (WG) containing 500 g/kg flonicamid

GROUP	29	INSECTICIDE

MAPP No.: 20214

22_05030405_43 • 109044140:UK • 7-3320-541-251-14/23

INSECTICIDE

Content:

500g e

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Production date / Batch number: see packaging

FOR USE ONLY AS A PROFESSIONAL HORTICULTURAL INSECTICIDE

PROTECT FROM FROST

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Approval holder:

ISK

ISK BIOSCIENCES Europe N.V.
Pegasus Park - De Kleetlaan 12B
B-1831 Diegem - Belgium
Tel.: +32 (0)2 627 86 11

® Registered trademark of ISHIHARA SANGYO KAISHA, Japan

Mainman® - Water dispersible granules (WG) containing 500 g/kg flonicamid.

UFI: 62J6-F9FJ-6X8Y-WK8U

WARNING



H319 Causes serious eye irritation.

P264 Wash hands, forearms and face thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention.

EUH208 Contains Disodium Maleate (ISO) (371-47-1). May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

IMPORTANT INFORMATION
FOR USE ONLY AS A HORTICULTURAL INSECTICIDE.

Crops / Situations	Maximum individual dose	Maximum number of treatments per crop	Latest time of application
Apple and pear	0.14 kg/ha	3	21 days before harvest
Cherry	0.14 kg/ha	2	14 days before harvest

Other specific restrictions:
- A minimum interval of 21 days must be observed between applications.
- Do not apply by hand-held equipment.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

24-hour emergency number: 0032 14 58 45 45

Certis Belchim
GROWING TOGETHER

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SAFETY PRECAUTIONS

Operator protection

- Spray equipment must only be used where the operator's normal working position is within a closed cab on a tractor or on a self-propelled sprayer when making broadcast air-assisted applications.

Other engineering control of operator exposure must also be used where reasonably practicable in addition to the following personal protective equipment:

- Wear suitable protective gloves and face protection (faceshield) when handling the concentrate.
- Wear suitable protective gloves when handling the product or handling contaminated surfaces.

However, other engineering controls in addition to those specified above may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

- WHEN USING, DO NOT EAT, DRINK OR SMOKE.
- Avoid any unnecessary contact with the product.
- Misuse can have adverse effects on health.

Environmental protection

- Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads)
- Avoid release into the environment. Refer to special instructions / Safety Data Sheets.
- Avoid producing drift during application.
- Make sure that product or spray solution cannot contaminate natural surface water.
- DANGEROUS TO BEES. To protect bees and pollinating insects do not apply to crop plants when in flower. Do not use where bees are actively foraging. Do not apply when flowering weeds are present.

Storage and disposal

- KEEP OUT OF REACH OF CHILDREN.
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
- Store in a cool, dry place.

IMPORTANT NOTES:

- DO NOT ALLOW THE PRODUCT TO STAND OVERNIGHT.
- Ensure that the spraying equipment and particularly nozzles have been thoroughly cleaned before starting spraying, in particular when equipment has been used for other products.

Spraying equipment should be calibrated prior to use to ensure accurate dosing.

DIRECTIONS FOR USE

Important: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

MAINMAN® is a selective aphicide with activity against all major aphid species on apples, pears and cherries.

Application

IMPORTANT - Product Measurement

As MAINMAN® is applied at a very low dose rate, it is important to accurately weigh the required amount of product for each spray operation in order to ensure application of the correct dose.

CONSULT PROCESSOR BEFORE USING ON APPLE, PEAR OR CHERRY CROPS FOR PROCESSING.

Unintended effects:

Evidence suggests that MAINMAN® has limited initial effects on populations of the beneficial mite *Typhlodromus pyri*, and any effect is short lived.

APPLE AND PEAR:

Apple: control of *Dysaphis plantaginea* and *Aphis pomi*.

Pear: control of *Dysaphis pyri*.

Target the first application against aphids when warning systems forecast significant aphid infestation (generally early spring on new developing leaves) and when aphids are present at the end of egg hatch. In apples this is usually around green cluster to pink bud. In pears this is usually from green cluster to petal fall. Later application may be required. Ensure good coverage of foliage for effective control.

Rate: The application rate of MAINMAN® is 0.14 kg/ha.

Water volume: 200 to 1000 L/ha (up to 1500L/ha if necessary). Water volume is dependent on size of trees, stage of development and spraying equipment used.

Spray schedule: MAINMAN® has a persistence of up to 21 days. The maximum number of treatments is 3 per year.

Pre harvest interval: The last spray should not be applied later than 21 days before harvest.

CHERRY:

Control of *Myzus cerasi*. A Qualified recommendation* for control of *Myzus persicae*.

The timing for main use in cherries will be between flower buds swelling and the end of flowering. Ensure good cover of foliage for effective control.

Rate: The application rate of MAINMAN® is 0.14 kg/ha.

Water volume: 200 to 1000 L/ha. Water volume is dependent on size of trees, stage of development and spraying equipment used.

Spray schedule: MAINMAN® has a persistence of up to 21 days. The maximum number of treatments is 2 per year.

Pre-harvest interval: The last spray should not be applied later than 14 days before harvest.

*Qualified recommendation

On the basis of limited effectiveness data, MAINMAN® can also be used for control of peach-potato aphid (*Myzus persicae*) in cherry. Apply MAINMAN® only when *M. persicae* is present in the crop or when indicated by aphid monitoring.

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Resistance Management Strategy:
MAINMAN® contains flonicamid which belongs to the IRAC mode of action group 29.

MAINMAN® is a feeding inhibitor. Do not make repeat applications of any aphicide if it appears not to work at full rate and if the product has been applied correctly.

Apple, pear: Do not apply more than 3 sprays of MAINMAN® per year.
Cherry: Do not apply more than 2 sprays of MAINMAN® per year.

In a program of insecticides use a maximum of 2 consecutive applications of MAINMAN®. If further treatments are required, use at least one application of an insecticide having a different mode of action to MAINMAN® before applying further MAINMAN®.
Integrate other control methods (chemical, cultural, biological) into insect control programs. For more information on insecticide resistance consult the IRAC website: http://www.irac-online.org/Strains of some aphid species are resistant to many aphicides. Where aphids resistant to products containing flonicamid occur, MAINMAN® is unlikely to give satisfactory control. Repeat treatments are likely to result in lower levels of control.

Preparation and application of the spray solution:
Add a minimum of 50% of the required water into the spray tank and agitate when adding the required amount of MAINMAN®. Finally add the rest of the required water volume. Keep the spray solution agitated until all product is applied. Never prepare more spray solution than required. Double rinse the empty product container and add the diluted product to the spray solution. When MAINMAN® is applied using broadcast air assisted orchard sprayers, appropriate measures to avoid drift (follow appropriate wind speed guidelines) onto non target crops or watercourses should be taken.

APPLICATION EQUIPMENT CLEANING PROCEDURE:
Ensure that no or only a minimal quantity of product remains in the spraying tank after field application. Upon completion dilute the remainder of the spray solution with the tank cleaning water; do not spray these on the treated fields. Any spillage should be collected and be disposed in appropriate chemical waste. In no way should contamination of waterways or surface water be allowed to occur. Thoroughly wash out all equipment after use. For disposal of washings, follow the Code of Practice for Using Plant Protection Products.

COMPANY ADVISORY INFORMATION
This section is not part of the (EC) 1107/2009 Regulation and provides additional advice on product use at the discretion of the authorisation holder.

STORAGE
- Reduce or avoid exposure and/or contact with the product.
- Keep container tightly closed.
- Store unused product in tightly closed, original container in a cool, dry area, preferably in a locked storage area. Store in such a manner as to prevent cross contamination. Keep away from food, drink, animal feedstuffs, or any other material intended for consumption or use by humans or animals.
- Do not store near a heat source or open flame.
- Keep dry and frost proof in a suitable pesticide store between 0 and 32°C.

CONDITIONS OF SUPPLY
All goods supplied by us are of a high grade and we believe them to be suitable, but as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality of fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

MAINMAN® is a registered trademark of Ishihara Sangyo Kaisha Ltd; Japan

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:

WEBLINK to specific data sheet on manufacturer's website:

http://www.certisbelchim.co.uk/pdf/MSDS/Mainman_MSDS.pdf

Alternatively, contact your supplier.

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