



# Floniki®

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**An aphicide for the control of most aphids in Potatoes, Cereals (Wheat, Barley, Triticale, Spelt, Rye, Oats), Fodder beet and Sugar beet, Oilseed rape (winter) and Orchards (Apples and Pears).**

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



**INSECTICIDE**

**RISK AND SAFETY INFORMATION**

UFI: A8T0-XOFT-Y005-9X51

**Content: 1 kg e**

**WARNING**

**Causes serious eye irritation.**

Wash hands, forearms and face thoroughly after handling.

Wear protective clothing, eye protection, face protection, protective gloves.

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

If eye irritation persists: Get medical advice/attention. Dispose of contents/container to a licenced hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Contains Disodium maleate (CAS No. 371-47-1). May produce an allergic reaction.

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



**PCS no. 06662**

REGISTRATION HOLDER:

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**Globachem**  
*Your Crop Counts*

**FOR PROFESSIONAL USE ONLY**

*Flonik® is a registered trademark for Globachem N.V.*

## **SAFETY PRECAUTIONS**

### **OPERATOR PROTECTION**

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

WEAR SUITABLE PROTECTIVE GLOVES when handling the product, when handling contaminated surfaces and when applying with hand-held equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying with broadcast air assisted application equipment.

During handling of the concentrated product as well as with the spray solution, wear standard protective clothing (especially rubber boots, gloves and eye 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.

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 FEEDINGSTUFFS.

Keep in original container, tightly closed, in a safe place.

Keep away from damp/sources of heat.

Reduce or avoid exposure and/or contact with the product.

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.

Empty container completely and dispose of safely.

Store in a cool, dry place between 0 and 32°C.

DO NOT ALLOW THE PRODUCT TO STAND OVERNIGHT.

### **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 the product.**

### **GENERAL INFORMATION**

FLONIKI® is a selective aphicide with activity against major aphid species on potato, wheat, spelt, triticale, rye, barley, oats, apples, pears, fodder beet, sugar beet and oilseed rape (winter).

FLONIKI® has a persistence of up to 21 days.

### **CROP SPECIFIC INFORMATION**

#### **WINTER WHEAT, SPRING WHEAT, WINTER BARLEY, TRITICALE, SPELT and RYE**

##### ***Control of aphids attacking the ears:***

*Macrosiphum avenae, Metopolophium dirhodum and Rhopalosiphum padi.*

Target the first application against aphids when warning systems forecast significant aphid infestation; or when the economical threshold is reached.

Apply FLONIKI® at a dose rate of 0.14 kg/ha in 200 to 500 L water/ha. Maximum total dose is 0.28 kg/ha.

The maximum number of applications is 2 per crop.

The last spray should not be applied later than 28 days before harvest.

### **WINTER BARLEY**

#### **Autumn application:**

##### ***Control of virus-carrying aphids:***

Target the application against aphids when warning systems forecast significant aphid infestation or when economic threshold is reached. Applications can be made from the one leaf stage of the crop up to mid-tillering.

Apply FLONIKI® at a dose rate of 0.14 kg/ha in 200 to 500 L water/ha. The maximum number of applications is **1 per crop**.

The last spray should not be applied later than 28 days before harvest.

## **SPRING BARLEY, WINTER OATS, SPRING OATS**

### **Control of aphids:**

Target the first application against aphids when warning systems forecast significant aphid infestation or when economic threshold is reached. Applications can be made from the flag leaf stage (BBCH 39) up to the late milk (BBCH 77) stage of crop growth.

Apply FLONIKI® at a dose rate of 0.14 kg/ha in 200 to 500 L water/ha. The maximum number of applications is **1 per crop**.  
The last spray should not be applied later than 28 days before harvest.

## **POTATO (ware)**

### **Aphids controlled:**

*Macrosiphum euphorbiae*, *Myzus persicae*, *Aphis nasturtii*.

Target the first application when warning systems forecast significant aphid infestations.

**Do not use in a tank mix with oil-based products when used on ware potatoes.**

Apply FLONIKI® at a dose rate of 0.16 kg/ha in 200 to 500 L water/ha. The maximum number of applications is **1 per crop**.  
The last spray should not be applied later than BBCH 51.

## **POTATO (seed)**

### **Aphids controlled:**

*Macrosiphum euphorbiae*, *Myzus persicae*, *Aphis nasturtii*.

Target the first application when warning systems forecast significant aphid infestations but not before BBCH 10.

Apply FLONIKI® at a dose rate of 0.16 kg/ha in 200 to 500 L water/ha. The maximum number of applications is **1 per crop**.  
The last spray should not be applied later than BBCH 15.

## **APPLES and PEARS**

**Aphids controlled on Apple:** *Dysaphis plantaginea* and *Aphis pomi*.

**Aphids controlled on Pear:** *Dysaphis pyri*.

Target the first application when warning systems forecast significant aphid infestations (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 and in pears this is usually from green cluster to petal fall. Later application may be required. Ensure good cover of foliage for effective control.

Apply FLONIKI® at a dose rate of 0.14 kg/ha in 200 to 1000 L water/ha (up to 1500 L/ha if necessary). Water volume is dependent on tree size, stage of development and spraying equipment used.

Maximum total dose is 0.42 kg/ha. The maximum number of applications is 3 per year.

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

CONSULT PROCESSOR BEFORE USING ON APPLE OR PEAR CROPS FOR PROCESSING

### **FODDER BEET and SUGAR BEET**

#### ***Control of virus-carrying aphids:***

Black bean aphid (*Aphis fabae*) and Peach potato aphid (*Myzus persicae*)

Target the application against aphids when warning systems forecast significant aphid infestation or when economic threshold is reached. Applications can be made from the two leaf stage of the crop, generally May to June. For virus control, where thresholds indicate treatment is necessary, apply FLONIKI® to the earliest permissible growth stages of the crop, when they are the most susceptible.

Apply FLONIKI® at a dose rate of 0.14 kg/ha in 200 to 500 L water/ha. The maximum number of applications is **1 per crop**.

The last spray should not be applied later than 60 days before harvest. Fodder beet must not be grazed by livestock or harvested for animal consumption until at least 60 days following last application.

### **WINTER OILSEED RAPE**

#### **Autumn application**

#### ***Control of aphids including virus-carrying aphids:***

Peach potato aphid (*Myzus persicae*).

Target the application against aphids when warning systems forecast significant aphid infestations or when the economic threshold is reached. Applications can be made in the autumn from the 2 leaf stage of the crop.

Apply FLONIKI® at a dose rate of 0.10 kg/ha in 200 to 300 L water/ha. The maximum number of applications is **1 per crop**.

The last spray should not be applied later than the 8 leaf stage of the crop in the autumn.

### **Unintended effects**

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

### **RESISTANCE MANAGEMENT STRATEGY**

**Spring barley, Winter oats, Spring oats, Fodder beet, Sugar beet, potatoes and Winter oilseed rape:** Do not apply more than 1 spray of FLONIKI® per crop.

**Wheat, Spelt, Rye, Triticale, Winter barley:** Do not apply more than 2 sprays of FLONIKI® per crop.

**Apples and pears:** Do not apply more than 3 sprays of FLONIKI® per year. In a program of insecticides use a maximum of 2 consecutive applications of FLONIKI® on apples and pears. If further treatments are required use at least one application of an insecticide having a different mode of action to FLONIKI® before applying further FLONIKI®.

The total maximum number of treatments with any flonicamid-based product per crop cycle or per agricultural season must never exceed the maximum number indicated on the label of one of the flonicamid-containing products.

FLONIKI® belongs to the IRAC mode of action group 29. Strains of some aphid species are resistant to many aphicides. Where aphids resistant to products containing flonicamid occur, FLONIKI® is unlikely to give satisfactory control. Repeat treatments are likely to result in lower levels of control.

FLONIKI® is a feeding inhibitor.

Do not make repeat applications of an insecticide from the same chemical sub-group (indicated by the IRAC MoA Group number) if it appears not to work at full rate and if the product has been applied correctly.

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/>

### **MIXING AND SPRAYING**

Ensure that the spraying equipment and especially nozzles have been thoroughly cleaned before starting spraying, in particular when equipment has been used for other purposes and on other crops.

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

Fill the spray tank with a minimum of 50% of the required water and start agitation. Slowly add in the required amount of FLONIKI®. 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 remaining diluted product to the spray solution.

**Do not use in a tank mix with oil-based products when used on ware potatoes.**

FLONIKI® should be applied evenly over the crop via tractor mounted or drawn boom or air assisted sprayer. Appropriate measures to avoid drift (follow appropriate wind speed guidelines) onto non-target crops or watercourses should be taken.

#### **IMPORTANT**

**As FLONIKI® 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.**

#### **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 disposed of 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 appropriate procedures.

#### **CONDITIONS OF SUPPLY**

All goods supplied by us are of 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 or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. 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.

**GROUP 29 INSECTICIDE**

- ▶ Water dispersible granule (WG) containing 500 g/kg flonicamid.
- ▶ PCS no. 06662

**IMPORTANT INFORMATION****FOR USE ONLY AS AN AGRICULTURAL AND HORTICULTURAL INSECTICIDE**

CROPS	MAXIMUM INDIVIDU-AL DOSE	MAXIMUM TOTAL DOSE	MAXIMUM NUMBER OF APPLI-CATIONS	LATEST TIME OF APPLICATION
Potatoes (ware)	0.16 kg/ha	0.16 kg/ha	1	GS 51
Potatoes (seed)	0.16 kg/ha	0.16 kg/ha	1	GS 15
Wheat, triticale, spelt, rye, barley (winter)	0.14 kg/ha	0.28 kg/ha	2	28 days before harvest
Barley (spring), oats (winter and spring)	0.14 kg/ha	0.14 kg/ha	1	28 days before harvest
Apples, pears	0.14 kg/ha	0.42 kg/ha	3	21 days before harvest
Fodder beet **, sugar beet	0.14 kg/ha	0.14 kg/ha	1	60 days before harvest
Oilseed rape (winter)	0.1 kg/ha	0.1 kg/ha	1	Eight true leaves unfolded (GS18)

**Other specific restriction:**

- Do not use in tank mix with oil-based products when used on ware potatoes.
- The total maximum number of treatments with any flonicamid-based product per crop cycle or per agricultural season must never exceed the maximum number indicated on the label of one of the flonicamid-containing products.

\*\* Fodder beet must not be grazed by livestock or harvested for animal consumption until at least 60 days following the last application.

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

**FOR PROFESSIONAL USE ONLY** PROTECT FROM FROST | STORE IN A COOL, DRY PLACE  
SHAKE WELL BEFORE USE | BATCH NUMBER: SEE BOTTLE

**Emergency medical information: contact National Poisons Information Centre, Beaumont Hospital, Dublin, Ireland. Telephone numbers:**  
01 809 2166 (8am to 10pm every day) for members of the public  
01 809 2566 or 01 837 9964 (24 hours) for healthcare professionals



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