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teppeki®

MAPP 20213

GROUP 29 INSECTICIDE

An aphicide for the control of aphids in potatoes, vining pea, winter wheat, spring barley, spring oats, triticale and rye; for the control of aphids and whitefly in cabbage, sugar beet, fodder beet, oilseed rape (winter) and reduction of whitefly in Brussels sprout.

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

INSECTICIDE

Net content

2 kg



PROTECT FROM FROST

READ CAREFULLY BEFORE USE

Production date/
Batch number: see packaging

Approval holder:

ISK BIOSCIENCES Europe N.V.



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® Registered trademark of
ISHIHARA SANGYO KAISHA, Japan

UFI: 62J6-F9EJ-6X8Y-WK8U

WARNING

H319 Causes serious eye irritation

P264 Wash contaminated body parts 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.

EUH210 Safety data sheet available on request. EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For advice on medical emergencies, fires, spillages or chemical hazards ONLY - phone Carechem 24 EU: 01235 239670

For technical and non-emergency calls - phone 0845 373 0305



Certis Belchim

GROWING TOGETHER

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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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces. However, engineering controls 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.



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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).

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.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place/under lock and key/away from damp/sources of heat.

MAPP 20213 INSECTICIDE

EMPTY CONTAINER COMPLETELY and dispose of safely.

IMPORTANT

DO NOT ALLOW THE PRODUCT TO STAND OVERNIGHT.

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 application.

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE

Crops/ situations	Maximum individual dose kg product/ha	Maximum number of treatments per crop	Latest time of application	Other specific restrictions
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For full details refer to the leaflet attached to the product pack.

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.



IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE

Crops/situations	Maximum individual dose kg product/ha	Maximum number of treatments per crop	Latest time of application
Potato	0.16	2	14 days before harvest
Winter wheat*	0.14	2	28 days before harvest
Fodder beet, sugar beet	0.14	1	60 days before harvest
Oilseed rape (winter)	0.10	1	BBCH 18 (eight true leaves unfolded)
Brussels sprout, cabbage	0.14	2	14 days before harvest
Vining pea	0.14	1	14 days before harvest
Spring barley, spring oats, triticale, rye	0.14	1	BBCH 77

*The earliest timing of application for TEPPEKI® on winter wheat is 50% of ear emerged stage (BBCH 53).

Other specific restrictions

A minimum interval of 21 days must be observed between applications on potato and winter wheat.

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

This product must not be applied in a tank-mix with oil based adjuvants when used on ware potato.

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.

THE (COSHH) CONTROL OF SUBSTANCES
HAZARDOUS TO HEALTH REGULATIONS MAY
APPLY TO THE USE OF THIS PRODUCT AT WORK.

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 AND
FACE PROTECTION (FACESHIELD) when handling
the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling
contaminated surfaces.

However, engineering controls 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.

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).

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.

KEEP IN ORIGINAL CONTAINER, tightly closed, in
a safe place/under lock and key/away from damp/
sources of heat.

EMPTY CONTAINER COMPLETELY and dispose
of safely.

IMPORTANT

**DO NOT ALLOW THE PRODUCT TO STAND
OVERNIGHT.**

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 application.**

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.

TEPPEKI® is a selective aphicide with activity against the specified aphid species on potatoes, cabbage, Brussels sprout, vining peas, winter wheat, spring barley, spring oats, triticale, rye, sugar beet, fodder beet and oilseed rape (winter).

Application

IMPORTANT - Product Measurement

As TEPPEKI® 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 VINING PEAS, CABBAGE OR BRUSSELS SPROUT FOR PROCESSING.

POTATO

Aphids controlled: *Macrosiphum euphorbiae*, *Myzus persicae* and *Aphis nasturtii*.

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

Rate: The application rate of TEPPEKI® is 0.16 kg/ha.

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 2 per crop.

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

Do not tank-mix with oil based adjuvants when applying to ware potatoes.

CABBAGE

Pests controlled: Aphid species. A reduction in numbers of whitefly will be achieved.

Target the first application when warning systems forecast significant aphid or whitefly infestations. Crops can be treated from the 2 to 3 leaf stage.

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

Water volume: 200 to 300 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 2 per crop with an interval of 14 to 21 days between applications.

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

VINING PEAS

Aphids: Moderate control of the aphid species *Myzus persicae*, *Aphis fabae*, *Acyrtosiphon pisum* will be achieved.

Target the application at arrival of aphids in spring or when warning systems forecast significant aphid infestations. An application can be made from the 2 leaf stage up to the pre-harvest interval.

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

Water volume: 200 to 400 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

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

WINTER WHEAT

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 economic threshold is reached. Do not apply TEPPEKI® before BBCH 53.

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

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days.

The maximum number of applications is 2 per crop.

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

SPRING BARLEY

Spring/Summer application

Control of aphids (*Macrosiphum avenae*, *Metopolophium dirhodum* and *Rhopalosiphum padi*).

Target the first application against aphids when warning systems forecast significant aphid infestation, or when the 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.

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

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

Pre-harvest interval: The last spray should not be applied later than the late milk crop growth stage (BBCH 77).

TRITICALE, RYE AND SPRING OATS

Spring/Summer application

Control of aphids (*Macrosiphum avenae*, *Metopolophium dirhodum* and *Rhopalosiphum padi*). Target the first application against aphids when warning systems forecast significant aphid infestation, or when the 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.

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

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

Pre-harvest interval: The last spray should not be applied later than the late milk crop growth stage (BBCH 77).

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 the 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 TEPPEKI® to the earliest permissible growth stages of the crop, when they are the most susceptible.

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

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

FODDER 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 the economic threshold is reached. Applications can be made from the two leaf stage of the crop, generally May to June.

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

Water volume: 200 to 500 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

OILSEED RAPE (WINTER)

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 infestation, or when the economic threshold is reached. Applications can be made in the autumn from the 2 leaf stage of the crop.

Rate: The application rate of TEPPEKI® is 0.10 kg/ha.

Water volume: 200 to 300 L/ha

Spray schedule TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 1 per crop.

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

QUALIFIED MINOR USE RECOMMENDATION

BRUSSELS SPROUT

Pests controlled: A reduction in numbers of whitefly will be achieved.

Target the first application when warning systems forecast whitefly infestations.

Crops can be treated from the 2 to 3 leaf stage.

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

Water volume: 200 to 300 L/ha

Spray schedule: TEPPEKI® has a persistence of up to 21 days. The maximum number of applications is 2 per crop with an interval of 14 to 21 days between applications.

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

Resistance Management Strategy

Potato, cabbage, Brussels sprout and wheat: Do not apply more than 2 sprays of TEPPEKI® per crop.

Vining peas, barley, oats, triticale, rye, sugar beet, fodder beet and oilseed rape (winter): Do not apply more than once per crop.

TEPPEKI® 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, TEPPEKI® is unlikely to give satisfactory control. Repeat treatments are likely to result in lower levels of control.

TEPPEKI® is a feeding inhibitor.

Do not make repeated 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.

If further treatments are required, use at least one application of an insecticide having a different mode of action to TEPPEKI® before applying further TEPPEKI®.

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/>

Preparation of the spray solution

Add a minimum of 50% of the required water into the spraying tank, and agitate when adding the required amount of TEPPEKI®. 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 tank-mix with oil based adjuvants when applying to ware potatoes.

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