

Appendix No. 1 to the decision of the Ministry of Agriculture and Rural Development No. R - 406/2024d of 09/05/2024 amending the permit of the Ministry of Agriculture and Rural Development No. R - 31/2013 of 18/02/2013.

Permit holder: Syngenta

Polska Sp. z o. o., ul. Szamocka 8, 01-748 Warsaw, tel.: 22 326-06-01, fax: 22 326-06-99.

Entity responsible for the final packaging and labelling of the plant protection product: (...).

KARATE ZEON 050 CS

The product is intended for use by professional users

Active substance content:

lambda-cyhalothrin (a compound from the pyrethroid group) – 50 g/l (4.81%).

Other hazardous substances not being the active substance: 1,2-benzisothiazolin-3(2H)-one.

Permit of the Ministry of Agriculture and Rural Development No. R - 31/2013 of

18/02/2013, last amended by the decision of the Ministry of Agriculture and Rural Development No. R - 406/2024d of 09/05/2024.



Attention

H302 – Harmful if swallowed.

H317 – May cause an allergic skin reaction.

H332 – Harmful if inhaled.

H410 – Very toxic to aquatic life with long lasting effects.

EUH401 - To avoid risks to human health and the environment, follow the instructions for use P261 - Avoid breathing

spray.

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 - Rinse mouth.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P391 – Collect spillage.

DESCRIPTION OF

ACTION: This insecticide, in the form of a suspension of capsules in a water-dilutable liquid, has contact and stomach action, intended for the control of biting and sucking pests in agricultural, fruit, and vegetable crops. It acts on the plant surface.

APPLICATION OF THE AGENT

The agent is intended for use with self-propelled or tractor-mounted field sprayers, self-propelled or tractor-mounted orchard sprayers or hand sprayers.

In fruit crops, do not apply the agent using hand sprayers.

Potato

Colorado potato beetle larvae and beetles

Maximum dose for single application: 0.16 l/ha.

Recommended dose for single use: 0.12 - 0.16 l/ha.

Application time: Apply after pest infestation. Use the higher recommended dose to control beetles and in the case of lush potato growth.

Aphids

Maximum dose for single application: 0.2 l/ha.

Recommended dose for single use: 0.16 - 0.2 l/ha.

Application period: perform the treatment after the pest appears.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 – 400 l/ha.

Recommended spraying: medium droplets.

Winter rapeseed

The turnip weevil

Maximum/recommended dose for single application: 0.125 l/ha.

Application date: spray before the beetles lay eggs, according to the indications.

Rapeseed pollen beetle (treatment against pollen beetle also combats the four-toothed weevil)

Maximum/recommended dose for single application: 0.12 l/ha.

Application date: spray after the appearance of beetles on the plantation, according to the signals.

Cabbage midge, cabbage midge

Maximum dose for single application: 0.15 l/ha.

Recommended dose for single application: 0.125-0.15 l/ha.

Application date: depending on the pest appearance date, perform the treatment from the phase when single flower buds are still visible on the main inflorescence until the end of the flowering phase (BBCH 55-69).

Rapeseed flea beetles, ground flea beetles

Maximum dose for single application: 0.15 l/ha.

Recommended dose for single application: 0.12-0.15 l/ha.

Application date: spray after the appearance of beetles on the plantation, according to the signal during the formation and development of the leaf rosette (BBCH 10-14), after noticing the first damage caused by flea beetles.

Rapeseed gnat

Maximum dose for single application: 0.15 l/ha.

Recommended dose for single application: 0.12-0.15 l/ha.

Application date: during the period of formation and development of the leaf rosette (BBCH 10-14), immediately after the appearance of young larvae, when the average number is 1 larva per 1 plant.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 l/ha.

Recommended spraying: medium droplets.

Winter wheat, spring barley

Violinists

Maximum dose for single application: 0.1 l/ha.

Recommended dose for single use: 0.075 - 0.1 l/ha.

Date of application: use from the beginning of larvae hatching.

Aphids

Maximum dose for single application: 0.1 l/ha.

Recommended dose for single use: 0.075 - 0.1 l/ha.

Application date: perform the treatment after earing, no later than the milky phase of grain maturity.

Aphids (vectors of viral diseases in the early stages of cereal development)

Maximum dose for single application: 0.1 l/ha.

Recommended dose for single use: 0.075 - 0.1 l/ha.

Application period: perform the treatment on: winter cereals – in autumn, spring cereals - in spring after the first aphids appear.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 – 400 l/ha.

Recommended spraying: medium droplets.

Corn

European corn borer

Maximum/recommended dose for single application: 0.2 l/ha.

Application date: perform the treatment during the maize tasseling period after the pest has appeared.

Aphids

Maximum/recommended dose for single application: 0.1 l/ha.

Application date: perform the treatment during the period of mass invasion of winged aphids on plants.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 - 400 l/ha.

Recommended spraying: medium droplets.

Sugar beet

Grey cochineal beetle (medium level of control)

Maximum/recommended dose for single application: 0.2 l/ha.

Application date: apply the treatment after the pest has appeared, up to BBCH39. For maximum effectiveness, it is recommended to apply the product when active beetles are observed, when the air temperature does not exceed 18°C.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10 days.

Recommended amount of water: 250 - 400 l/ha.

Recommended spraying: medium droplets.

Apple tree

Apple aphid

Maximum dose for single application: 0.2 l/ha.

Recommended dose for single use: 0.15 – 0.2 l/ha.

Application date: Apply the treatment after the pest appears. In commercial orchards, limit application to one application per growing season. Perform further necessary treatments using products from other chemical groups.

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 500 - 750 l/ha.

Recommended spraying: medium droplets.

Onions grown in the ground

Onion thrips Maximum/

recommended dose for a single application: 0.12 l/ha.

Application date: perform the treatment after the first pests appear.

Onion cream

Maximum/recommended dose for single application: 0.12 l/ha.

Application time: perform the treatment during the midge invasion period, i.e. at the beginning of the lilac flowering.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10 - 14 days.

Recommended amount of water: 400 – 500 l/ha.

Recommended spraying: medium droplets.

Cabbage grown in the ground Caterpillars

of the cabbage white moth, turnip white moth, diamondback moth Maximum /

recommended dose for a single application: 0.12 l/ha.

Application period: spray during the period of mass hatching of caterpillars.

Cabbage aphid

Maximum/recommended dose for single application: 0.12 l/ha.

Application date: spray after the first aphid colonies appear.

Cabbage cream

Maximum/recommended dose for single application: 0.12 l/ha.

Application period: perform the treatment at the beginning of the chestnut flowering period.

Onion thrips

Maximum/recommended dose for single application: 0.12 l/ha.

Application date: spray after pest occurrence.

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 500 - 600 l/ha.

Recommended spraying: medium droplets.

**APPLICATION OF PLANT PROTECTION PRODUCTS
IN MINOR CROPS AND APPLICATIONS**

The user is solely responsible for the effectiveness and phytotoxicity of a plant protection product used in minor crops.

Aronia

Aphids

Maximum dose for single application: 0.2 l/ha.

Recommended dose for single use: 0.15 - 0.2 l/ha.

Application date: perform the treatment after the pest appears, from the stage when the first chokeberry leaf is unfolded until the end of the flowering stage (BBCH 11-69).

Rowan borer

Maximum dose for single application: 0.2 l/ha.

Recommended dose for single use: 0.15 - 0.2 l/ha.

Application date: perform the treatment in spring after the pest appears (when the pest feeds in the inflorescences).

Rose-rumped tortrix

Maximum dose for single application: 0.2 l/ha.

Recommended dose for single use: 0.15 - 0.2 l/ha.

Application date: perform the treatment in spring (usually the end of April, beginning of May), after the caterpillars appear.

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 500 – 750 l/ha.

Recommended spraying: medium droplets.

Hop

Hop flea beetle, lilianeczka moth

Maximum/recommended dose for single application: 0.15 l/ha.

Application period: perform the treatment after the pest appears, when the first damage is visible, up to 50 cm of hop plants height.

Spray rows of plants or individual plants.

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 300 - 500 l/ha.

Recommended spraying: medium droplets.

Common flax (a crop intended exclusively for the textile industry)

Flea beetles – flax flea beetle, flax long-footed beetle

Maximum/recommended dose for single application: 0.15 l/ha.

Application date: perform the treatment during the emergence period (BBCH 11-14), after the pest has appeared.

Thrips – flax thrips, kohlrabi thrips

Maximum/recommended dose for single application: 0.15 l/ha.

Application period: perform the treatment from the beginning of the main shoot elongation phase until the beginning of flowering (BBCH 30-61).

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 - 400 l/ha.

Recommended spraying: medium droplets.

Hemp (cultivated exclusively for the textile industry)

Hop flea beetle

Maximum/recommended dose for single application: 0.15 l/ha.

Application date: perform the treatment during the emergence period (BBCH 11-14), after the pest has appeared.

European corn borer

Maximum/recommended dose for single application: 0.2 l/ha.

Application period: use during the hatching period of the borer larvae according to the indications (June).

Maximum number of treatments during the growing season: 2.

Interval between treatments: at least 10-14 days.

Recommended amount of water: 300 - 400 l/ha.

Recommended spraying: medium droplets.

Sweet corn

European corn borer

Maximum/recommended dose for single application: 0.2 l/ha.

Application period: carry out the treatment from the beginning of panicle appearance to the stage when the panicle tip is visible (BBCH 51-53), after the pest has appeared.

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 300 - 400 l/ha.

Recommended spraying: medium droplets.

Broccoli

Caterpillars of the cabbage white moth, the turnip white moth, the cabbage white moth, and the diamondback moth

Maximum/recommended dose for single application: 0.2 l/ha.

Application period: spray during the period of mass hatching of caterpillars.

Cabbage aphid

Maximum/recommended dose for single application: 0.2 l/ha.

Application date: spray after the first aphid colonies appear.

Cabbage mushroom

Maximum/recommended dose for single use: 0.2 l/ha.

Application date: perform the treatment after the first pests appear.

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 300 – 600 l/ha.

Recommended spraying: medium droplets.

Walnut

Walnut beetle, aphids

Maximum/recommended dose for a single application: 0.2 l/ha Application

date: Apply after pest appearance. The last developmental stage for application is the end of fruit development (BBCH 81).

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 800 – 1500 l/ha.

Recommended spraying: medium droplets.

Common hazel

Aphids, elephant weevil

Maximum/recommended dose for single application: 0.2 l/ha.

Application date: Apply the treatment after the pest appears. The final developmental stage for application is the end of the fruit development phase (BBCH 80).

Maximum number of treatments during the growing season: 1.

Recommended amount of water: 800 – 1500 l/ha.

Recommended spraying: medium droplets.

SUCCESSFUL PLANTS In

the event of early liquidation of the plantation, successive crops may be sown or planted 30 days after the last treatment with Karate Zeon 050 CS.

PRECAUTIONS, WITHDRAWAL PERIODS AND SPECIAL CONDITIONS APPLICATIONS

Period from the last application of the agent to the day of harvesting the crop (withdrawal period):

Winter rapeseed, winter wheat, spring barley - 28 days,

Hops, sugar beet, walnut, common hazel - 14 days,

Potato, corn, sweetcorn, chokeberry, apple tree, onion, cabbage, broccoli - 7 days,

Common flax, hemp (crops intended exclusively for the textile industry) – not applicable

The period from the last application of the agent to plants intended for feed until the day on which animals may be fed with these plants (withdrawal period for feed) - not applicable.

1. The agent works more effectively at temperatures below 20°C. At higher temperatures, the treatment should be performed at the end of the day.
2. When spraying plants (e.g. cabbage, onion) or pests (e.g. cabbage aphid) covered with a waxy coating, add a wetting agent to the liquid.
3. The treatment against pests (especially sucking ones) should be carried out thoroughly so that all parts of plants were covered with usable liquid.
4. When using the product, do not allow:
 - drift of the spray liquid onto neighboring crops,
 - overlapping of the working liquid at the junctions of the treatment strips and headlands.

PREPARATION OF USABLE LIQUID

Before starting to prepare the working liquid, determine exactly the amount needed.

Shake the contents of the package before use.

Pour the measured amount of the agent into the sprayer tank partially filled with water. (with the mixer on) and top up with water to the required amount.

Spray with the agitator on.

After pouring the agent into the sprayer tank not equipped with a hydraulic mixer, mechanically mix the liquid in the tank.

Rinse the empty containers three times with water and pour the rinsings into the sprayer tank with the working liquid.

In case of interruptions in spraying, thoroughly mix the working liquid in the sprayer tank before resuming work.

HANDLING OF USABLE LIQUID RESIDUES AND CLEANING OF EQUIPMENT

Remaining liquid and water used to clean the equipment should be:

- if possible, after dilution, use on the surface on which the treatment was carried out, or
- disposed of using technical solutions ensuring biological degradation of the active substances of plant protection products, or
- dispose of in another manner in accordance with waste regulations.

Wash the equipment thoroughly after work.

PRECAUTIONS FOR PERSONS USING THE AGENT, EMPLOYEES AND BYSTANDERS

Before using the product, all interested parties who may be exposed to the spray drift and who have requested such information should be informed.

Do not eat, drink or smoke while using the product.

Wear protective gloves, eye and face protection, and protective clothing to protect against the effects of plant protection products when preparing the working solution and during the treatment.

Avoid skin contamination.

The period from the application of the agent to the day on which people and animals may enter the area where the agent has been applied (prevention period):

Do not enter until the liquid has completely dried on the plant surface.

ENVIRONMENTAL PRECAUTIONS

Do not contaminate water with the plant protection product or its packaging.

Do not wash equipment near surface water.

Avoid water pollution through drainage ditches from farms and roads.

Dangerous to bees. During flowering, it is recommended to use the product outside of bee activity periods. Do not use in areas where bees are harvesting honeydew.

In order to protect aquatic organisms, it is necessary to designate a protection zone with a width of:

- 40 meters from reservoirs and watercourses in apple, chokeberry and walnut cultivation, common hazel and hops,
- 10 meters from reservoirs and watercourses where the following crops are grown: corn, including sweet corn, potatoes, winter rapeseed, common flax and hemp, sugar beet.
- 5 meters from reservoirs and watercourses when growing: cabbage, broccoli, onions, winter cereals and spring.

In order to protect non-target arthropods, it is necessary to designate a protection zone with a width of:

- 5 m from unused agricultural land where winter rapeseed, onions, cabbage, broccoli are grown, winter and spring cereals,
- 10 m from unused agricultural land where corn, including sweet corn, is grown potato, common flax, hemp, sugar beet.
- 30 m from unused agricultural land in apple cultivation (late applications),
- 40 m from unused agricultural land for apple cultivation (early use) and chokeberry, walnut, common hazel and hops.

STORAGE CONDITIONS AND SAFE DISPOSAL OF PLANT PROTECTION PRODUCTS AND PACKAGING

Keep out of reach of children.

Store the plant protection product:

- in original packaging, • in a way that prevents contact with food, beverages or feed, environmental contamination and access by third parties,
- at a temperature of 0°C - 30°C, in a cool, well-ventilated place.

It is prohibited to use empty packaging of plant protection products for other purposes.

Any unused product should be transferred to an entity authorized to collect hazardous waste.

Return the empty packaging containing hazardous plant protection products to the seller.

FIRST AID

Antidote: none, treat symptomatically.

If you need to consult a doctor, show the packaging or label.

If swallowed: Call a poison control center or doctor if you feel unwell. Rinse mouth.

If skin irritation or rash occurs: Get medical advice/attention.

Validity period – 2 years.

Production date -

Net Content -

Batch number -