

09/03

ALPHAGUARD 100 EC

MAPP 10772

An emulsifiable concentrate formulation containing 100 g/l alpha-cypermethrin for control of insect pests in oilseed rape, wheat, barley Brussels sprout, cabbage, cauliflower, broccoli/calabrese, kale and forestry.

Net contents – 1.0 litre

Batch No -

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

ALPHAGUARD 100 EC

Contains 100g/L alphacypermethrin formulated in light naphtha solvent



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

- R21 HARMFUL IN CONTACT WITH SKIN.**
R25 TOXIC IF SWALLOWED.
R36/38 IRRITATING TO THE RESPIRATORY SYSTEM AND SKIN.
R41 RISK OF SERIOUS DAMAGE TO EYES
R10 FLAMMABLE
R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING.
R67 VAPOURS MAY CAUSE DROWSINESS OR DIZZINESS.
S2 KEEP OUT OF THE REACH OF CHILDREN.
S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
S20/21 WHEN USING DO NOT EAT, DRINK OR SMOKE.
S23 DO NOT BREATHE SPRAY.
S26 IN CASE OF CONTACT WITH THE EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S27 TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
S28 AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
S29/56 DO NOT EMPTY INTO DRAINS, DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT
S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
S45 IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (show label where possible).
S49 KEEP ONLY IN ORIGINAL CONTAINER.
S62 IF SWALLOWED, DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE AND SHOW THIS CONTAINER OR LABEL.

Distributor:

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Fax: 0208 319 7200

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 mixing and use, all conditions and warranties, statutory or otherwise, as to the quality of or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any danger or injury whatsoever arising from their storage, handling, application or use.

For the emergency information telephone National Poisons Information Service at one of the following numbers:

London 020 7635 9191

Penarth 01222 709901

Newcastle 0191 232 5131

Belfast 01232 240503

Edinburgh 0131 536 2300

Birmingham 0121 507 5588

Leeds 0113 243 0715

COMPLIANCE WITH THE FOLLOWING CONDITIONS OF USE AND ALL SAFETY PRECAUTIONS MARKED* IS A LEGAL REQUIREMENT.

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY INSECTICIDE

Crops	Maximum individual dose (product)	Maximum number of treatments	Latest time of application
Winter and spring oilseed rape	200 ml/ha	See Other specific restrictions	Before the end of flowering
Winter and spring wheat and barley (autumn and spring applications)	150 ml/ha	See Other specific restrictions	Before 31 March in the year of harvest.
Winter and spring wheat and barley	AND/OR 150 ml/ha	One application between 1 April and 31 August	Before early dough stage
Cabbage, Brussels sprout, cauliflower, broccoli, calabrese and kale	100 ml/ha	4 per crop	7 days before harvest
Forestry nursery	See other specific restrictions	1 per crop	
Forestry – post planting treatments	See other specific restrictions	2 per year	

Other specific restrictions

- Winter Oilseed Rape - 600 ml/ha/crop may be applied with a maximum of 200ml/ha after the yellow bud stage.
- Spring Oilseed Rape - 400 ml/ha/crop may be applied with a maximum of 200ml/ha after the yellow bud stage.
- Winter and spring wheat and barley
 - 400 ml/ha/crop may be applied to wheat and barley up to and including 31st March in the year of harvest, with a maximum of 150 ml/ha/crop applied between 1 January and 31 March in the year of harvest.
 - Reduced volume spraying must not be used on wheat and barley after 31st March in the year of harvest.
 - The product must not be applied to a cereal crop if any product containing a pyrethroid insecticide or dimethoate has been applied to the crop after the start of ear emergence (GS51).
 - Cereal crops should not be treated within 6m of the outer edge after 31 March.
- Forestry
 - Nursery stock - Maximum in use conc. 40ml/L of spray solution.
 - Post planting - Maximum in use conc. 10ml/L of spray solution

Operator protection:

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to use of this product at work.
READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE BEFORE USE.

SAFETY PRECAUTIONS. (Precautions marked* are a legal requirement.)

The following safety precautions are additional to the “R” and “S” phrases listed above.

Operator protection.

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

***WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHEILD)** when opening container, diluting, mixing or transferring the chemical from one container to another, filling machine, adjusting apparatus after filling, washing out sprayer, container and equipment after use.

***FORESTRY USES – WEAR SUITABLE PROTECTIVE CLOTHING (IMPERMEABLE COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHEILD) AND RUBBER BOOTS** when applying the product to container grown forestry transplants as a pre-planting drench or as a post planting spot treatment or when handling freshly treated material. Workers planting treated forestry transplants must wear personal protective equipment as specified in the Forestry Enterprise Safety Guide (HSE publication AFAG103) for these activities.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.

WASH HANDS AND EXPOSED SKIN before meals and after work.

***DO NOT RE USE CONTAINER FOR ANY OTHER PURPOSE.**

Environmental protection.

***EXTREMELY DANGEROUS TO FISH OR AQUATIC LIFE.** Do not contaminate surface waters or ditches with chemical or used container.

***DO NOT ALLOW DIRECT SPRAY** from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, or within 1m of the top of a ditch which is dry at the time of application.

***DO NOT ALLOW DIRECT SPRAY** from hand held sprayers to fall within 1m of the top of the bank of a static or flowing water body. Aim spray away from water.

***THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYER SCHEME.**

***DO NOT SPRAY** cereals after 31st March within 6 metres from the edge of the growing crop.

Storage and disposal.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY; empty washings into spray tank and dispose of safely.

Concentrated solutions must be protected from frost

Disposal:

Refer to the Code of Practice for Disposal for the Safe Use of Pesticides on Farms and Holdings (available from H.M.S.O.) and see product safety information.

DIRECTIONS FOR USE:

ALPHAGUARD 100 EC is a contact and stomach acting insecticide with residual foliar activity.

WATER VOLUMES

Alphaguard 100 EC should be applied in not less than 200 litres of water per hectare. In situations where increased coverage is required, for example, in dense or thick foliage or when pests are well concealed then the volume of water should be increased to where sufficient coverage is obtained, up to a maximum of 500 litres per hectare.

MIXING

Fill the spray tank with clean water and agitate vigorously. Add the recommended quantity of Alphaguard 100 EC and apply without delay. If a tank-mix with another material is required, always add Alphaguard 100 EC to the tank first, and ensure it is dispersed through the tank before adding the second material. Maintain agitation until spraying complete.

WARNING

DO NOT use less than the minimum volume of water specified.

CONSULT PROCESSORS BEFORE USING ON CROPS FOR PROCESSING.

WINTER OILSEED RAPE

Specific restrictions: A total of 600 ml/ha/crop may be applied to Winter Oilseed Rape with a maximum of 200ml/ha after the yellow bud stage

A total of 400 ml/ha/crop may be applied to Spring Oilseed Rape with a maximum of 200ml/ha after the yellow bud stage

Pests: Cabbage Stem Flea Beetle and Rape Winter Stem Weevil (Reduction of spread of Beet Western Yellow Virus)

Rate of Application: 100 ml per hectare

Timing of Application

Alphaguard 100 EC should be applied when adult Cabbage Stem Flea Beetle feeding damage is first seen on young rape plants. A second application should be made when larval damage is seen in the leaf petioles (normally one month later). In situations where no adult feeding damage is seen, the first application should be made when larval damage is first seen in the leaf petiole followed by a second application one month later.

The use of Alphaguard 100EC for the control of Cabbage Stem Flea Beetle will also control the adults and young larvae of the Rape Winter Stem Weevil if these are present in the crop at the time of application.

Applications of Alphaguard 100 EC at these timings will also reduce the spread of Beet Western Yellow Virus.

Pests: Cabbage Seed Weevil and Brassica Pod Midge

Rate of Application: 200 ml per hectare

Timing of Application

Alphaguard 100 EC may be applied at any time during the flowering period when Seed Weevil numbers reach the threshold for spraying[§]. Best results are normally achieved when application coincides with the onset of peak adult activity. This often occurs between the 20 pod set stage on the main raceme and the end of flowering on the main raceme, ie 75% petal fall across the entire crop.

WINTER AND SPRING OILSEED RAPE**Pest: Pollen beetle**

Rate of Application: 100 ml per hectare

Timing of Application

Application should be made at the green to yellow bud stage, as soon as pest numbers reach the threshold for spraying. A second application may be required 3-7 days later (the exact timing dependent on the speed of pest-reinfestation and when the threshold is reached) within the green to yellow bud stages of the crop.

[§] Details of thresholds are available from ADAS or your specialist adviser.

SPRING OILSEED RAPE**Pest: Cabbage Seed Weevil**

Rate of Application: 200 ml per hectare

Timing of Application

When pest numbers reach the threshold for spraying, normally from the yellow bud stage of the crop. Application at yellow bud will also control Pollen Beetles (see separate section on pollen beetle). A further application may be necessary if continuing pest pressure causes the seed weevil threshold to be reached during flowering on the main raceme.

WHEAT AND BARLEY**Specific restrictions**

A total of 400 ml/ha/crop may be applied to wheat and barley up to and including 31st March in the year of harvest, with a maximum of 150 ml/ha/crop applied between 1 January and 31 March in the year of harvest.

Reduced volume spraying must not be used on wheat and barley after 31st March in the year of harvest.

Environmental protection

The product must not be applied to a cereal crop if any product containing a pyrethroid insecticide or dimethoate has been applied to that crop after the start of ear emergence (GS51).

Pests: Cereal Aphids – Autumn/Winter (Reduction of spread of Barley Yellow Dwarf Virus and control of Yellow Cereal Fly).

Rate of Application: 150 ml per hectare

Timing of Application**High Risk Situations**

Crops drilled before the 3rd week of September, crops following grass or grassy stubbles, or crops in areas with a history of BYDV. The first application should be made when aphids are first seen in the crop (or by mid-October). A second application will be necessary at the end of aphid migration, which is normally at the end of October or beginning of November. Where conditions continue to favour prolonged aphid activity, eg mild winters, and where 2 applications of another insecticide have already been made in the autumn, one application of Alphaguard 100 EC can be made in December to March.

Other situations

Apply in late October or early November to crops that have emerged by mid-October if aphids are found, or on ADAS warnings.

Alphaguard 100 EC applied in the autumn for aphid control will also give some control of Yellow Cereal Fly if present in the crop.

Pests: Cereal Aphids – Summer

Rate of Application: 150 ml per hectare

A single application may be made from 1 April to 31 August in any one summer.

Timing of Application

Between the onset of flowering and the milky ripe stage (GS61 GS73) when 66% or more heads are infested (equivalent to 5 aphids per ear) and aphid numbers are increasing[§].

[§] Details of thresholds are available from ADAS or your specialist adviser.

CABBAGE, BRUSSELS SPROUT, CAULIFLOWER, BROCCOLI, CALABRESE AND KALE.

Pest: Flea beetle

Rate of Application: 75 ml per hectare

Timing of Application

Apply as soon as pest attack is observed on seedling plants. Repeat if necessary.

Pest: Caterpillars

Rate of Application: 100 ml per hectare

Timing of Application

Apply when damage is first seen or as a preventative spray. Repeat if necessary.

Pests: Caterpillars, Aphids (Mealy Cabbage Aphid)

Rate of Application: 100 ml Alphaguard 100 EC per hectare plus recommended dose of an approved aphicides. Care should be taken that all label recommendations for both products used in tank mixtures are followed.

Timing of Application

Apply as soon as aphid infestations are seen. Repeat if necessary.

QUALIFIED MINOR USE.

FORESTRY:

Note: Evidence of effectiveness and crop safety on forestry trees is limited.

Specific restrictions

The maximum spray concentration may be used

Container grown nursery stock : 40ml product/litre.

Post planting treatment: 10ml product/litre.

Pests: Large Pine Weevil (Hylobius abietis).

Rate and method of application:

Container grown nursery stock: - 40ml product/litre (Mechanical spray race).

Post planting treatment: - 10ml product/litre (Forest drench gun delivering 20 mls of solution to the base of the tree stem.)

Timing of application:

Application to container grown nursery stock should take place up to one month before transplanting.

Post planting applications should be made either before damage is seen or on the onset of damage in the first two years after transplanting. A maximum of two applications can be made in any one year.