

DELTA

MAPP 21150



1Le



PROTECT FROM FROST
SHAKE WELL BEFORE USE

GROUP 3A INSECTICIDE

Batch No. and manufacturing date: see packaging

CropLifeUK

A broad spectrum insecticide for the control of aphids, caterpillars and a range of other pests in a wide range of agricultural and horticultural crops.

An emulsifiable concentrate formulation containing 25 g/L (2.8% w/w) deltamethrin.

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 CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

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

TAKE OFF IMMEDIATELY all contaminated clothing.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

The container must be opened outdoors.

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.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified of the top of the bank of a static or flowing water body, or within 1 M of the top of a ditch which is dry at the time of application. Aim spray away from water. BUFFER ZONES OF MORE THAN 5 M ARE NOT REDUCIBLE.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The results of the LERAP record form must be kept available for three years.

DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 30 M of the top of the bank of a static or flowing waterbody when applied to raspberry and 50 M when applied to apple and pear, unless a local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with HSE's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS when applied to crops other than cereals. See Directions for use.

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing 3 times. Add washings to the sprayer at the time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty, clean containers which can be disposed of as non-hazardous waste.

DIRECTIONS FOR USE:

Refer to the leaflet attached to the pack.

DELTA

Contains 25 g/L (2.8% w/w) deltamethrin and solvent naphtha (petroleum), light aromatic.



ANGER

Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.

Ground/bond container and receiving equipment.

Wear protective gloves/protective clothing/eye protection.

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

IF exposed concerned: Call a POISON CENTRE or doctor/physician.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty, clean containers which can be disposed of as non-hazardous waste.

Repeated exposure may cause skin dryness or cracking.

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

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crops: Broad bean (fresh), field bean, combining pea, vining pea, cauliflower, Brussels sprout, cabbage, lettuce (outdoor), mustard (spring and winter), oilseed rape (spring and winter), sugar beet, swede, turnip, barley (spring and winter), oats (winter and spring), wheat (spring and winter), apples, pears, raspberries, cucumber (protected), tomato (protected), pepper & chilli (protected), amenity vegetation (outdoor), ornamental plant production (outdoor) & ornamental plant production (protected).

Maximum individual dose	Maximum total dose	Latest time of application	Aquatic buffer zone distance
Refer to the leaflet attached to the product pack for full details.			

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.

**Gemini**
AGRICULTURE

Marketing Company

Gemini Agriculture Ltd

71-75 Shelton Street, Covent Garden, London, WC2H 9JQ

Authorisation Holder

Gemini Agriculture Ltd

71-75 Shelton Street, Covent Garden, London, WC2H 9JQ

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Scan for Safety Data Sheet or use weblink:
geminiag.com/products

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Aim spray away from water. BUFFER ZONES OF MORE THAN 5 M ARE NOT REDUCIBLE.

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RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS when applied to crops other than cereals. See Directions for use.

Storage and Disposal

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IMPORTANT INFORMATION

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Crops	Maximum individual dose	Maximum total dose	Latest time of application
Broad bean (fresh), field bean, combining pea, vining pea	300 ml/ha	600 ml/ha/crop	7 days before harvest
Cauliflower	300 ml/ha	900 ml/ha/crop	7 days before harvest
Brussels sprout, cabbage	300 ml/ha	600 ml/ha/crop	7 days before harvest
Lettuce (outdoor)	250 ml/ha	750 ml/ha/crop	7 days before harvest
Mustard (spring), oilseed rape (spring)	300 ml/ha	900 ml/ha/crop	Before end of flowering (GS 69) (not less than 45 days before harvest)
Mustard (winter), oilseed rape (winter)	300 ml/ha	1200 ml/ha/crop	Before end of flowering (GS 69) (not less than 45 days before harvest)
Sugar beet, swede, turnip	300 ml/ha	300 ml/ha/crop	30 days before harvest
Wheat (winter), barley (winter), oats (winter)	250 ml/ha	750 ml/ha/crop	Before soft dough stage (GS 85) (not less than 30 days before harvest)
Barley (spring), oats (spring), wheat (spring)	250 ml/ha	500 ml/ha/crop	Before soft dough stage (GS 85) (not less than 30 days before harvest)
Apples and pears	350 ml/ha	1050 ml/ha/crop	7 days before harvest
Raspberries	500 ml/ha	1500 ml/ha/crop	7 days before harvest
Cucumber (protected), tomato (protected)	70 ml/100 litres water	Maximum number of treatments 3 per crop	7 days before harvest
Pepper and chilli (protected)	50 ml/100 litres water	Maximum number of treatments 3 per crop	7 days before harvest
Amenity vegetation (outdoor), ornamental plant production (outdoor), ornamental plant production (protected).	70 ml/100 litres water	Maximum number of treatments 3 per year	-

Crops/situations	Aquatic buffer zone distance (metres)
Amenity vegetation (outdoor), barley (spring), barley (winter), broad bean – fresh crops, Brussels sprout, cabbage, cauliflower, combining pea, field bean, lettuce (outdoor), mustard (spring), mustard (winter), oats (spring), oats (winter), oilseed rape (spring), oilseed rape (winter), ornamental plant production (outdoor), sugar beet, swede, turnip, vining pea, wheat (spring), wheat (winter)	7

Other Specific Restrictions

Hand held use must only be used on crops grown under permanent protection with full enclosure.

To protect non-target insects/arthropods when applied to cereals, respect an untreated buffer zone of 5 metres to non-crop land.

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DIRECTIONS FOR USE

IMPORTANT: This leaflet is approved as part of the label. All instructions on this leaflet and on the label should be read carefully in order to obtain successful results from the use of this product.

RESTRICTIONS

DO NOT spray crops suffering from drought or other physical or chemical stress.

DO NOT spray wet crops liable to run-off. Some varieties of ornamentals are particularly sensitive to chemical sprays, so treat a small number of plants first to determine the reaction.

Do not apply this product in tank-mixture with a triazole-containing fungicide when bees are likely to be actively foraging in the crop. Consult manufacturer.

PROTECT FROM FROST

STORE IN A SAFE DRY PLACE designated as an agrochemical store

DELTA is rainfast 1 hour after spraying. It can be applied in frosty weather provided foliage is not covered with ice.

Very high temperatures, greater than 35°C may reduce efficacy or persistence.

Avoid spraying within 5 M of the field boundary to reduce effects on non-target insects or other arthropods when applied to the following crops: Amenity vegetation (outdoor), broad bean (fresh), brussels sprout, cabbage, cauliflower, combining pea, field bean, lettuce (outdoor), mustard (spring), mustard (winter), oilseed rape (spring), oilseed rape (winter), ornamental plant production (outdoor), sugar beet, swede, turnip and vining pea.

The best available application technique, which minimises off-target drift should be used to reduce effects on non-target insects or other arthropods when applying to apple, pear and raspberry.

Hand-held use is only acceptable in the following situations permanent protection with full enclosure, i.e. glasshouse, for the following crops cucumber, tomato, pepper and chilli, ornamental plant production as the aquatic buffer zone does not apply in this situation.

PESTS CONTROLLED

Please refer to Crop Specific Information section.

The possible development of pests resistant to DELTA cannot be excluded or predicted. Where such resistant strains occur, DELTA is unlikely to give satisfactory control. When certain insects may develop resistance to Gemini Agriculture products and since such circumstances are beyond our control, Gemini Agriculture will be under no liability for any loss or damage whatsoever.

APPLICATION

Sprayers should be THOROUGHLY CLEANED before use and filters and jets checked for damage and blockages.

Use 200-1500 litres of water per hectare depending on crop and pest.

A pressure of 2-3 bar (30-40 psi) is recommended.

Apply as a MEDIUM quality spray (as defined by BCPC). DELTA is not systemic and it is, therefore, important that the amount of water is sufficient to permit good spray coverage of the foliage, particularly in beans, peas, glasshouse crops and ornamentals. Use only nozzles designed and recommended for the volume to be applied.

For use via horizontal boom sprayer, broadcast air assisted sprayer and knapsack sprayer (SEE RESTRICTIONS).

CROP SPECIFIC INFORMATION

Wheat and Barley

For the control of Barley Yellow Dwarf Virus (and some control of *Opomyza*)

Where BYDV has been a problem: For crops drilled before mid-September, spray when aphids are first found in the crop or in mid-October. If the crop is sprayed before early October, a second spray in early November may be beneficial. For crops drilled mid-September to early October, spray any time from mid-October to early November.

Where BYDV has not been a problem or if drilled after early October: Spray any time from late October to early November if aphids found or on specialist advice.

In mild winters further sprays may be needed.

Dose: 200 ml/ha in 200 litres of water

For the control of *Opomyza* (yellow cereal fly)

Apply at start of egg hatch (normally late January to February) or according to specialist advice. Crops most at risk are those drilled before mid-October in fields with a history of *Opomyza*.

Dose: 250 ml/ha in at least 200 litres of water.

Wheat, Barley and oats

For the control of aphids on ears

Apply when two-thirds or more of heads are infested and numbers increasing (equivalent to 5 aphids per head).

Dose: 250 ml/ha in at least 200 litres of water.

Brussels sprouts, cabbage and cauliflower

For the control of caterpillars (and some control of aphids ++ and whitefly)

For Non-routine treatment; apply at the first stage of attack or as a preventative spray.

Dose: 300 ml/ha in at least 400 litres of water.

For pre-harvest clean-up, a reduced dose may be used when only short persistence of the product is required and applied 7 days prior to harvest.

Dose: 150 ml/ha in at least 400 litres of water.

For the control of brassica flea beetle (*Phyllotreta* spp.), apply when damage is first seen.

Repeat at 14-day intervals if necessary.

Dose: 300 ml/ha in 200-400 litres of water.

Peas and Bean (broad, and field)

For the control of pea and bean weevil

Apply at first signs of adult damage (leaf notching). Repeat after 2-3 weeks if prolonged and heavy attack.

Dose: 300 ml/ha in 200-400 litres of water.

Pea midge

Apply sprays when local warnings indicate for control of pea midge and improvement in pod numbers. A second application may be necessary if the risk remains high.

Dose: 250 ml/ha in 200-400 litres of water.

Peas

For the control of pea moth (and some control of pea aphids)

Apply according to the pea moth pheromone trapping system in conjunction with specialist advice.

Dose: 250 ml/ha in at least 400 litres of water.

Sugar Beet, swedes, turnips

For the control of flea beetle

Apply at the first signs of damage.

Dose: 300 ml/ha in 200-400 litres of water.

Spring Oilseed Rape and Mustard

For the control of pollen beetle

Apply at green bud stage: If pollen beetle numbers are at threshold levels. A second application may be necessary if pest attack is prolonged.

Dose: 300 ml/ha in at least 200 litres of water.

For the control of cabbage seed weevil, brassica pod midge

Apply at green to yellow bud stage if cabbage seed weevil numbers are at threshold levels. Repeat during flowering if pest attack is prolonged.

Applications during flowering will also give control of brassica pod midge.

Dose: 300 ml/ha in at least 200 litres of water when applied during flowering.

Winter Oilseed Rape

For some control of Beet Western Yellow Virus (BWYV)

Best results will be obtained by spraying at the 2-4 leaf stage, but spraying at 5-10 leaves can give good control.

Dose: 250 ml/ha in 200 litres of water.

For control of cabbage stem flea beetle and useful control, of rape winter stem weevil

Apply when adults are seen to be causing leaf damage, usually late August to October.

Spray for flea beetle larvae once they can be found in leaf stalks, usually late October/early November. A second spray may be necessary to control later hatches

Dose: 250 ml/ha in 200 litres of water

For control of pollen beetle, apply at green bud stage

If pollen beetle numbers are at threshold levels. A second application may be necessary if pest attack is prolonged.

Dose: 300 ml/ha in at least 200 litres of water.

For control of cabbage seed weevil, brassica pod midge, DELTA can be applied at any time during the flowering period if cabbage seed weevil numbers are at threshold levels, but best results will be obtained from applications made at the end of flowering on the main raceme (GS 49), usually 75% petal fall. Later applications may not prove effective as DELTA is primarily a contact insecticide.

There is no spray threshold for brassica pod midge. Treatment decision should be based on previous local experience. Applications for seed weevil will also control brassica pod midge.

Dose: 300 ml/ha in at least 200 litres of water

Lettuce (outdoor)

For the control of cutworms

Apply when pest first seen. Use a second spray if necessary.

Dose: 250 ml/ha in at least 1000 litres of water.

CROP SPECIFIC INFORMATION

Wheat and Barley

For the control of Barley Yellow Dwarf Virus (and some control of *Opomyza*)

Where BYDV has been a problem: For crops drilled before mid-September, spray when aphids are first found in the crop or in mid-October. If the crop is sprayed before early October, a second spray in early November may be beneficial. For crops drilled mid-September to early October, spray any time from mid-October to early November.

Where BYDV has not been a problem or if drilled after early October: Spray any time from late October to early November if aphids found or on specialist advice.

In mild winters further sprays may be needed.

Dose: 200 ml/ha in 200 litres of water

For the control of *Opomyza* (yellow cereal fly)

Apply at start of egg hatch (normally late January to February) or according to specialist advice. Crops most at risk are those drilled before mid-October in fields with a history of *Opomyza*.

Dose: 250 ml/ha in at least 200 litres of water.

Wheat, Barley and oats

For the control of aphids on ears

Apply when two-thirds or more of heads are infested and numbers increasing (equivalent to 5 aphids per head).

Dose: 250 ml/ha in at least 200 litres of water.

Brussels sprouts, cabbage and cauliflower

For the control of caterpillars (and some control of aphids ++ and whitefly)

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Dose: 300 ml/ha in at least 400 litres of water.

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Dose: 150 ml/ha in at least 400 litres of water.

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Repeat at 14-day intervals if necessary.

Dose: 300 ml/ha in 200-400 litres of water.

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Dose: 300 ml/ha in 200-400 litres of water.

Pea midge

Apply sprays when local warnings indicate for control of pea midge and improvement in pod numbers. A second application may be necessary if the risk remains high.

Dose: 250 ml/ha in 200-400 litres of water.

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For the control of pea moth (and some control of pea aphids)

Apply according to the pea moth pheromone trapping system in conjunction with specialist advice.

Dose: 250 ml/ha in at least 400 litres of water.

Sugar Beet, swedes, turnips

For the control of flea beetle

Apply at the first signs of damage.

Dose: 300 ml/ha in 200-400 litres of water.

Spring Oilseed Rape and Mustard

For the control of pollen beetle

Apply at green bud stage: If pollen beetle numbers are at threshold levels. A second application may be necessary if pest attack is prolonged.

Dose: 300 ml/ha in at least 200 litres of water.

For the control of cabbage seed weevil, brassica pod midge

Apply at green to yellow bud stage if cabbage seed weevil numbers are at threshold levels. Repeat during flowering if pest attack is prolonged.

Applications during flowering will also give control of brassica pod midge.

Dose: 300 ml/ha in at least 200 litres of water when applied during flowering.

HORTICULTURAL CROPS

Apples

For the control of caterpillars, apple sucker, apple grass aphid

Apply at green cluster.

For the control of codling and Tortrix moth, sawfly, late capsid

Apply at about mid-June or 10-14 days after light or pheromone traps first record a steady emergence of moths.

A further application may be applied three weeks later. A third spray may be necessary in late July or early August if Tortrix moths are a problem.

Dose: 350 ml/ha in at least 200 litres of water or High Volume: 20 ml per 100 litres of water.

Pears

For the control of pear sucker# (overwintered adults, eggs and nymphs)

Apply Pre-blossom – At any stage between bud burst and white bud or
Post-blossom – At first signs of pest build-up, any time from petal fall onwards. Do not apply during blossom period.

Dose: 350 ml/ha in at least 200 litres of water or High Volume: 20 ml per 100 litres of water.

Raspberries (outdoor)

For the control of raspberry beetle

Apply when about 80% of the blossom is over (usually mid June). (One spray when pink fruit is seen is usually adequate although for high quality dessert fruit two sprays may be applied). A further application may be made when the first fruit is colouring, (usually about 2 weeks later).

Dose: Conventional volume only: 500 ml/ha in 1000 litres of water.

Glasshouse crops: cucumbers, tomatoes, and ornamental plant production (ornamentals and pot plants)

For the control of whitefly‡, scale insects, aphids, caterpillars, mealy bugs

Apply when pest first seen. For whitefly, thoroughly wet plants, especially leaf under-surface. Repeat application as required:

Dose: High volume only 70 ml per 100 litres of water.

Glasshouse crops: peppers and chillies

For the reduction of caterpillars

Apply when pest first seen. Repeat application as required:

Some effect on whitefly‡, scale insects, aphids and mealy bugs may also be seen.

Dose: High volume only 50 ml per 100 litres of water.

Ornamentals plant production (outdoor ornamentals, trees, shrubs and nursery stock) and amenity vegetation (outdoor ornamentals, trees and shrubs).

For the control of whitefly‡, scale insects, caterpillars, capsids, thrips, aphids, mealy bugs.

Apply when pest first seen. For whitefly, thoroughly wet plants, especially leaf under-surface. Repeat as required.

Dose: High volume only 70 ml per 100 litres of water*.

†† Strains of some aphid species are resistant to many aphicides. Where aphids resistant to products containing pyrethroid insecticides occur, DELTA is unlikely to give satisfactory control.

‡ Glasshouse whitefly strains resistant to one or more groups of insecticides are widespread. Where strains resistant to products containing pyrethroid insecticides occur, DELTA is unlikely to give satisfactory control.

Note: resistant strains of the tobacco whitefly are also known to occur.

Pear suckers resistant to one or more groups of insecticides are widespread. Where strains resistant to products containing pyrethroid insecticides occur, DELTA is unlikely to give satisfactory control. Where repeat treatments are necessary use different active ingredients.

RESISTANCE MANAGEMENT STRATEGY

Total reliance on one pesticide will hasten the development of resistance; pesticides of different chemical types or alternative control measures should be included in a planned programme.

Alternating insecticides with different modes of action is a recognised anti-resistance strategy and DELTA should always be used in alternation with other insecticides of a different mode of action where available. DELTA should always be applied at the recommended rate of use and in sufficient water volume to achieve the required spray penetration into the crop and uniform coverage necessary for optimal pest control.

MIXING AND APPLICATION

Prior to mixing EC formulations, such as DELTA, it is particularly important to thoroughly wash out the sprayer using a recommended detergent. Solvents in EC formulations can remove pesticides adhering to the tank and other parts of the sprayer.

Shake well before use. Add the required quantity immediately at the beginning of filling the spray tank with water. Keep the spray agitation in action and add the required quantity of water. Continue agitation until spraying is completed. After spraying, thoroughly wash out the spray tank.

Pro-Rata rates for use in knapsack sprayer (cucumber, tomato, pepper and chilli, ornamental plant production all grown under permanent protection with full enclosure i.e. glasshouse)

Dose rate of 70 ml per 100 litres of water use 7ml 10L water in a knapsack

Dose rate of 50 ml per 100 litres of water use 5ml 10L water in a knapsack

COMPANY ADVISORY INFORMATION

CONDITIONS OF SUPPLY

All goods supplied are manufactured to our usual standard of quality, but all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of the goods are excluded and no liability (save as to the liability to replace defective goods herein provided) will be accepted by us for any damage, loss or injury whatsoever arising out of or in connection with the goods or drums or other containers thereof, or from the storage, handling, applications or use thereof. In the case of alleged defects in the manufacture of the goods proved by the customer to our satisfaction we will at our expense replace or otherwise remedy the defective goods. In particular liability in tort arising in or out of the manufacture, distribution, sale or use of the product is hereby expressly excluded. All our goods are sold and supplied on the terms contained in our standard Conditions of Sale (of which the above is part) which shall prevail over any other terms and which may be inspected on request.