




Clayton Cayman

An oil dispersion formulation containing 240 g/L (22.97% w/w) thiacloprid. A neonicotinoid insecticide to control aphids in broccoli/calabrese, Brussels sprout, cabbage, cauliflower, carrot, parsnip, pea and potato. To reduce damage from orange wheat blossom midge in wheat, and for the control of pollen beetles in spring and winter oilseed rape and mustard and the control of peach potato aphid in winter oilseed rape.

MAPP 18386

  	<p>Clayton Cayman contains 240 g/L (22.97%) thiacloprid</p> <p>Signal Word : DANGER Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility. May damage the unborn child. Very toxic to aquatic life with long lasting effects.</p> <p>Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Call a POISON CENTRE or doctor/physician.</p> <p>Dispose of contents/container to a licenced hazardous waste disposal contractor or collection site except for empty clean/triple-rinsed containers which can be disposed of as non-hazardous waste. To avoid risks to human health and the environment, comply with the instructions for use.</p>
<p>THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK</p>	

INVERT PACK REPEATEDLY AND SHAKE THOROUGHLY BEFORE USE

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PROTECT FROM FROST
Clonee, Co. Meath
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Tel: (00 353) 1 8210127

Contents: 5 litres e

UN 3082

Batch No:

Conditions of Supply: all goods supplied by us are of high quality and we believe them to be correct but, as we cannot exercise control over their storage, handling, mixing or use, or weather conditions before, during and 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, and no responsibility will be accepted by us or resellers 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.

IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL INSECTICIDE			
Crop	Maximum individual dose	Maximum number of treatments	Latest time of Application
Potatoes (ware)	0.4 L/ha	1 per crop	14 days before harvest
Potatoes (seed)	0.4 L/ha	2 per crop	14 days before harvest
Wheat*	0.4 L/ha	1 per crop	Up to and including flowering (anthesis just complete) (GS 69)
Winter oilseed rape**	0.3 L/ha	2 per crop	30 days before harvest
Spring oilseed rape and Mustard	0.3 L/ha	1 per crop	30 days before harvest
Combining pea & vining pea	0.4 L/ha	2 per crop	7 days before harvest
Broccoli/calabrese, Brussels sprout, cabbage & cauliflower	0.4 L/ha	2 per crop	7 days before harvest
Carrot & parsnip	0.4 L/ha	2 per crop	7 days before harvest
Other specific restriction: *Do not apply to wheat before first spikelet visible stage (GS 51) ** For use on winter oilseed rape, only one application is authorised in the autumn and one application in the spring of any neonicotinoid insecticide.			
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.			

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.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

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

Use only in well ventilated areas.

Do not breathe spray.

In case of contact with eyes, rinse with plenty of water and seek medical advice.

Use appropriate containment to avoid environmental contamination.

This material and its container must be disposed of in a safe way.

Environmental Protection

Do not contaminate water with product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards or roads.

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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 three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

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 : Invert pack repeatedly and shake well before use

PESTS CONTROLLED

Clayton Cayman is a neonicotinoid systemic insecticide which provides:-

- control of pea aphids (*Acyrtosiphon pisum*) and pea midge damage in peas
- control of aphids (cabbage aphid *Brevicoryne brassicae* and peach-potato aphid (*Myzus persicae*) in broccoli/calabrese, Brussels sprout, cabbage and cauliflower,
- control of the willow carrot aphid (*Cavariella aegopodii*) in carrot and parsnip
- control of aphids (e.g. virus vectors such as the peach-potato aphid *Myzus persicae* and potato aphid *Macrosiphum euphorbiae*) in potatoes
- control of pollen beetles in winter and spring oilseed rape and mustard
- control of peach-potato aphid *Myzus persicae* in winter oilseed rape
- reduction in damage caused by orange wheat blossom midge in wheat

CROP SPECIFIC INFORMATION : There are various restrictions on the number of applications that can be made of any neonicotinoid product on certain crops. Please refer to the 'PESTICIDE RESISTANCE MANAGEMENT STRATEGY' for further details.

APPLICATION : Apply in a water volume of 200 - 400 Litres of water per hectare according to the crop and pest. Apply as a MEDIUM quality spray (BCPC).

All varieties of broccoli/calabrese, Brussels sprout, cabbage, cauliflower, carrot, parsnip, peas, potatoes, wheat, oilseed rape and mustard may be treated.

Broccoli/calabrese, Brussels sprout, cabbage and cauliflower

Apply Clayton Cayman at a rate of 0.4 L/ha as aphids start to build up in the crop. On autumn/ winter crops with longer growing periods destined for later harvesting, one or both of the neonicotinoid foliar applications should be targeted at *Brevicoryne brassicae* and should be applied late in the season when numbers of *Myzus persicae* are low.

Levels of control may be reduced where high, established populations are present. In such circumstances a second application may be required.

Clayton Cayman may be used up to 2 times in a programme in alternation with non-neonicotinoid insecticides of a different mode of action.

Do not use Clayton Cayman in consecutive sprays. Follow guidelines in 'PESTICIDE RESISTANCE MANAGEMENT STRATEGY' below.

Water Volume: - 200 – 400 L/ha. Use higher water volumes in dense crops.

Combining peas and vining peas : Apply Clayton Cayman at a rate of 0.4 L/ha as pea aphids start to build up in the crop. A second application may be applied if aphid pressure remains high. Preliminary data have shown that well-timed applications of Clayton Cayman at a rate of 0.4 L/ha can give useful control of pea midge and improvement in pod numbers. Inspect plants at early flowering (flower buds enclosed) and apply the first spray if adult midges are found or according to local warnings. Repeat 7-10 days later.

Water Volume: - 200 – 400 L/ha

Carrots and parsnips : Apply Clayton Cayman at a rate of 0.4 L/ha as aphids start to build up in the crop. A second application may be applied if aphid pressure remains high.

Water Volume: - 200 – 400 L/ha

Potatoes :

Ware Crops : Apply Clayton Cayman at a rate of 0.4 L/ha when aphids reach threshold levels. Should further applications be required, use a non-neonicotinoid insecticide of a different mode of action.

Seed crops : Apply Clayton Cayman at a rate of 0.4 L/ha from crop emergence. Clayton Cayman may be used up to 2 times in a programme in alternation with non-neonicotinoid insecticides of a different mode of action. Do not use Clayton Cayman in consecutive sprays. Use no more than two applications of any neonicotinoid containing product on seed potatoes (see 'pesticide resistance management strategy'). Clayton Cayman will reduce the transmission of potato viruses when used as part of an insecticide programme for virus prevention

Water Volume: - 200 – 400 L/ha: use a higher volume on dense crops.

Spring oilseed rape and mustard : Apply Clayton Cayman at a rate of 0.3 L/ha at green bud stage if pollen beetle numbers are at threshold levels.

Water Volume: - 200 – 400 L/ha

Winter oilseed rape : For control of *Myzus persicae* in winter oilseed rape in the autumn apply Clayton Cayman at a rate of 0.3 L/ha from 2 leaf unfolded stage as *Myzus persicae* starts to build up in the crop. This application can be followed by one application for spring (see above).

Water Volume: - 200 – 400 L/ha

Wheat : Apply Clayton Cayman at a rate of 0.4 L/ha during ear emergence as soon a threshold of adult orange wheat blossom midges has been reached. Use pheromone traps or yellow sticky traps to monitor adult activity in crops at risk. Crops at GS55-59 are most susceptible to damage. Consult HGCA literature or a qualified agronomist for additional information on the pest and spray thresholds. Aphids present on the crop at application will also be controlled.

Water Volume: - 200 L/ha

PESTICIDE 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 Clayton Cayman should be used in alternation with insecticides of a different mode of action, giving consideration to the overall treatment programme on the crop against a range of pests. Clayton Cayman should ideally 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.

Brassicas –

Use no more than two foliar applications of any neonicotinoid insecticide (e.g. acetamiprid, thiacloprid) on any crop. Two foliar applications are permitted regardless of whether a neonicotinoid insecticide has previously been used on the crop as a seed or module treatment. Where a neonicotinoid seed or soil treatment has been used, the first subsequent foliar spray should be with a non-neonicotinoid containing product with a different mode of action. One or both of the neonicotinoid foliar applications should be targeted at *Brevicoryne brassicae* and should be applied late in the season when numbers of *Myzus persicae* are low. Alternate with non-neonicotinoid containing products between foliar applications of neonicotinoids.

Potato –

Use no more than a single application of any neonicotinoid insecticide on ware potatoes, and no more than two applications of any neonicotinoid insecticide on seed potatoes.

Oilseed rape –

Use no more than two foliar applications of any neonicotinoid insecticide (e.g. acetamiprid, clothianidin, imidacloprid, thiacloprid) on winter oilseed rape: one application in the autumn (for *Myzus persicae*) and one application in the spring (pollen beetle). Use only one foliar application on spring oilseed rape (pollen beetle). Growers should consult the professional-IRAG website for further information on the current advice and resistance management strategy for pollen beetle and *Myzus persicae*, particularly in relation to pyrethroid resistance which is widespread in both pests. (Should winter/spring oilseed rape seed have been treated with a neonicotinoid insecticide seed treatment previously, only a single foliar application of any neonicotinoid containing product must be used).

Clayton Cayman should always be applied at the full 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 SPRAYING : Invert pack repeatedly and shake well before use. Add the required quantity of Clayton Cayman to the half-filled spray tank with the agitation system in operation, and fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing. Wash equipment thoroughly, immediately after use, and drain.

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