



Clayton Rook

Contains 50% w/w pymetrozine formulated as a water dispersible granule for the control of *Aphis gossypii* in cucumbers and ornamental plants. MAPP 18139

	<p>A water dispersible granule containing 50% w/w pymetrozine</p> <p>WARNING : Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.</p>
	<p>Keep out of reach of children. Obtain special instructions before use. Use personal protective equipment as required. If exposed or concerned; get medical advice/attention. Collect spillage. 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.</p>
<p>To avoid risks to human health and the environment, comply with the instructions for use.</p>	

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

IMPORTANT INFORMATION FOR USE ONLY AS A HORTICULTURAL INSECTICIDE			
	Maximum Individual Dose (kg product/ha)	Maximum Number of Treatments	Latest timing of application
Protected cucumbers	0.4	3 per crop	3 days before harvest
Ornamental plant production	0.4	4 per crop	-

Other Specific Restrictions: The maximum concentration must not exceed 20g product per 100 litres water. A minimum interval of 7 days must be observed between applications to outdoor ornamentals. **READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

<p>Approval Holder : Clayton Plant Protection Ltd., Bracetown Business Park, Clonee, Dublin 15. Ireland. Tel: (00 353) 1 8210127</p> <p>Marketing Company : Clayton Plant Protection (UK) Ltd. Address as above www.cpp.ag Email: info@cpp.ag</p>	<p>Pack size : 250g</p> <p>UN 3077</p> <p>Batch No : <i>*see footnote</i></p>
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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.

** Clayton batch numbers have complete traceability back to the original manufacturer's batch numbers and are available to CRD on request. Clayton Rook with MAPP number 18139 has been confirmed by CRD to be identical to the reference product MAPP No: 17580.*

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 when handling the concentrate and contaminated surfaces. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH HANDS before meals and after work.

Environmental Protection

Do not contaminate water with product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from yards and roads.

HIGH RISK TO BEES (Outdoor use only). DO NOT apply to crops in flower or to those in which bees are actively foraging. Do not apply when flowering weeds are present.

RISK TO CERTAIN NON-TARGET insects or arthropods. See 'Directions for Use' and the section on 'Use in Integrated Pest Management Programmes'.

Storage and Disposal

EMPTY CONTAINER COMPLETELY and dispose of safely.

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

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

PESTS CONTROLLED

CLAYTON ROOK contains 50% w/w pymetrozine formulated as a water dispersible granule. It controls organophosphorus and carbamate susceptible and resistant strains of aphids on cucumbers and named species of ornamental plants.

Pymetrozine is an insecticide derived from a novel type of chemistry which is highly selective against plant sucking insects. It penetrates green leaves and quickly prevents aphid feeding. There is no immediate knockdown effect, but aphids do not feed again, and death occurs through starvation within one to four days.

CLAYTON ROOK controls melon-cotton aphid (*Aphis gossypii*) on cucumbers and ornamental plants.

USE IN INTEGRATED PEST MANAGEMENT PROGRAMMES:

Limited data indicate CLAYTON ROOK has some margin of safety on *Phytoseiulus persimilis*, *Amblyseius fallacis* and *Typhlodromus pyri*, and to *Encarsia formosa* present in black parasitised whitefly scales. For the latest information consult your specialist advisor

RESISTANCE MANAGEMENT:

To prevent the development of resistance, CLAYTON ROOK should not be used continuously in sequence or as the sole method of control. A maximum of two treatments should be made in sequence. Alternate with products from different chemical groups with a different mode of action, and consider the use in IPM programmes.

CROP SPECIFIC INFORMATION

ORNAMENTAL PLANTS (PROTECTED CULTIVATION AND FIELD-GROWN CROPS)

CLAYTON ROOK has been used safely at the recommended dose on all species listed below without crop damage.

Anemone	Cyclamen	Ficus	Lisianthus
Begonia	Dieffenbachia	Gerbera	Roses
Chrysanthemum	Fatshedera	Lilium	

However, because of the large number of species and varieties in use and the variation in growing conditions, the varietal susceptibility should always be checked by treating a small number of plants in the first instance. CLAYTON ROOK may leave visible spray deposits on the leaves of some ornamentals.

Timing: Apply as soon as aphids or damage are seen in the crop. Repeat as necessary with a minimum spray interval of one week. Avoid spraying within 6 metres of field boundaries to reduce effects on non-target insects or arthropods.

Dose: 20 g CLAYTON ROOK per 100 litre water. A maximum of 4 applications of CLAYTON ROOK may be made to each crop.

Spray Volume: Spray to run-off using any suitable hydraulic sprayer and a medium or medium/ fine spray quality in a water volume of 200-2000 litres per hectare. Good spray cover is required for optimal control of aphids.

CUCUMBER

CLAYTON ROOK is approved for use on all varieties of cucumber grown under protected cultivation. Timing: Apply as soon as aphids or damage are seen in the crop. Repeat as necessary with a minimum spray interval of one week.

Dose: 20 g CLAYTON ROOK per 100 litres of water. A maximum of 3 applications of CLAYTON ROOK may be made to each crop.

Spray Volume: Spray to run-off using any suitable hydraulic sprayer and a medium or medium / fine spray quality and a water volume of 200 - 2000 litres per hectare. Good spray cover is required for optimal control of aphids.

Harvest Interval: Do not harvest crops for at least 3 days after application of CLAYTON ROOK.

MIXING AND SPRAYING (ALL CROPS)

Make sure the sprayer is set to give an even application at the correct volume.

In all cases add CLAYTON ROOK to the spray tank first, followed by any additional products.

Dry Mixing - Sprayers with Induction Hoppers:

Fill sprayer to 15% of tank capacity with water and start agitation. Pour CLAYTON ROOK into the induction hopper and open valve in bottom of hopper to suck the granules into the circulating spray mix. Continue adding CLAYTON ROOK until loading is complete. Wash down any granules on the hopper wall and close valve.

Note for old sprayers with indirect venturi induction hoppers

In the unlikely event of problems occurring during dry induction of the granules (blocked venturi), open the rinse ring and add water to the hopper. As soon as product induction continues, carry on adding product until the required amount is reached.

Sprayers without Induction Hoppers:

Fill sprayer with a minimum of 15 cm of water in the bottom and agitate vigorously. Pour CLAYTON ROOK through the sprayer lid and then add the remainder of water. Agitate the mixture thoroughly before use and continue agitation until spraying is complete.

Thoroughly wash all spray equipment with water after use.

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