



Approval Holder:
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GEAR

**A fungicide for the control of certain fungal diseases
in a range of vegetable, fruit and horticultural crops**

A water dispersible
granule containing
37.5% w/w
cyprodinil and 25%
w/w fludioxianil

1 kg
e

FOR PROFESSIONAL USE ONLY

Clayton Gear contains 37.5% w/w
cyprodinil and 25% w/w fludioxianil



Warning



**May produce an allergic reaction
VERY TOXIC TO AQUATIC ORGANISMS
WITH LONG LASTING EFFECTS.**

Keep out of reach of children.
Wear protective gloves, protective
clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap
and water. If skin irritation or rash occurs:
Get medical advice/attention.

Collect spillage.

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

**To avoid risks to man and the environment,
comply with the instructions
for use.**

PCS 06607

In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964

IMPORTANT INFORMATION: FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE

Crops/situations:	Maximum individual dose (kg product/ha):	Maximum number of applications:	Latest time of application (days before harvest):
Broad bean, dwarf French bean, runner bean	1	2 per crop	14
Vining pea, edible podded pea	1	2 per crop	14
Broad bean (harvested dry), dwarf French bean (harvested dry), combining pea (harvested dry)	1	2 per crop	28
Carrots (field)	0.8	3 per crop	7
Celeriac (field)	0.8	2 per crop	14
Strawberry (field and protected)	1	2 per year	3
Raspberry (field and protected), blackberry (field and protected)	1	3 per year	14
Blackcurrants (field), Redcurrants (field), Bilberry (field) Blueberry (field), Cranberry (field), Gooseberry (field),	1	3 per year	10
Apple, crab apple, pear, quince	0.8	3 per year	3
Ornamentals (protected), Forest nursery (protected)	0.8	3 per year	-
Forest nursery (field), Ornamentals (field)	1	3 per year	-

**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.**

Batch number (see Conditions of supply):

RECOMMENDATIONS

MIXING AND SPRAYING

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

Fill the spray tank with half the required volume of clean water and start agitation.

Add the required amount of **Clayton Gear** to the spray tank.

Agitate the mixture thoroughly before use and continue agitation during spraying.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling.

Complete filling to the required volume and continue to agitate throughout the spraying operation.

Do not leave the spray liquid in the sprayer for long periods (such as during meal breaks or overnight).

Thoroughly wash all spray equipment with water immediately after use.

Volume of water and spraying

Apply **Clayton Gear** through conventional crop spraying equipment using a medium quality spray (BCPC) at a pressure of at least 2 bar.

Fresh beans, fresh peas, dried peas, carrot and celeriac: Apply in at least 200 litres of water per hectare.

Protected and outdoor strawberries: Protected strawberries - Apply in at least 600 litres of water per hectare.

Outdoor strawberries: Apply in at least 500 litres of water per hectare.

Redcurrant, blackcurrant, gooseberry, blueberry, bilberry, cranberry, raspberry and blackberry:

Apply in at least 800 litres of water per hectare.

Apple, pear, quince, crab apple and dried beans: Apply in at least 400 litres of water per hectare.

Ornamental plant production and forestry nursery : Apply in a maximum concentration of 80 grams product per 100 litres of water

After Spraying

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washings and clean containers according to local water authority guidelines.

RESISTANCE MANAGEMENT

In order to minimise the likelihood of the development of resistance, it is recommended that **Clayton Gear** should be used in a programme with products of different chemical groups. Alternating or mixing fungicides with different modes of actions is a recognised disease resistance management strategy.

Clayton Gear contains cyprodinil, an anilinopyrimidine chemical. Application should be made in accordance with the FRAC anilinopyrimidine (AP) working group botrytis guidelines.

Where only 2 applications are made per season, the number of anilinopyrimidine products should be limited to 1. Where up to 6 botrytis treatments are made per crop and season, a maximum of 2 applications of anilinopyrimidine-containing products are recommended. Where more than 6 fungicide treatments are made per crop and season, a maximum of 3 applications of anilinopyrimidine-containing products are recommended.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack.

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 who do not supervise or assist in the use of such goods.

GEAR

A water dispersible granule containing 37.5% w/w cyprodinil and 25% w/w fludioxanil

PCS 06607

A fungicide for the control of certain fungal diseases in a range of vegetable, fruit and horticultural crops

**PROTECT FROM FROST
STORE IN A COOL, DRY PLACE**

SAFETY PRECAUTIONS

Operator protection

Spray equipment must only be used where the operator's normal working position is within a closed cab on a tractor or on a self-propelled sprayer when making broadcast air-assisted applications.

Other 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 product or handling contaminated surfaces. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.

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

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

Environmental protection

When applying by tractor mounted/trailed sprayer: To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

When applying by broadcast air assisted sprayer: To protect aquatic organisms respect an unsprayed buffer zone of 30m to surface water bodies when applying to apple, crab apple, pear and quince; or 10m to surface water bodies when applying to blackberry, raspberry, blueberry, bilberry, cranberry, redcurrant, blackcurrant, gooseberry, ornamentals and forest nursery.

When applying knapsack/handheld sprayer: To protect aquatic organisms respect an unsprayed buffer zone of 1m to surface water bodies.

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.

Storage and disposal

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 the washings to the sprayer tank at the time of filling and dispose of container safely.

DIRECTIONS FOR USE

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

PROPERTIES OF CLAYTON GEAR

Clayton Gear is a fungicide containing cyprodinil and fludioxonil and is best used as a protectant treatment or in the earliest stages of disease development.

Clayton Gear may be used as part of a programme of sprays. To maintain a high level of protection, and to prevent or limit the development of *Botrytis* strains less sensitive to the product, applications of **Clayton Gear** should not be made consecutively but should be used in alternation with fungicides with different modes of action, with satisfactory efficacy against the pathogen.

DISEASES CONTROLLED

Fresh and Dried Beans	<i>Botrytis</i> (grey mould) [Moderate control] <i>Sclerotinia sclerotiorum</i>
Fresh and Dried Peas	<i>Mycosphaerella pinodes</i> , <i>Ascochyta pisi</i> (both giving a useful level of control) <i>Botrytis</i> (grey mould) [Moderate control] <i>Sclerotinia sclerotiorum</i>
Carrots	Alternaria Leaf Blight (<i>Alternaria dauci</i>) [Moderate control] <i>Sclerotinia sclerotiorum</i> [Moderate control]
Celeriac	<i>Sclerotinia sclerotiorum</i> [Moderate control]
Strawberries	<i>Botrytis</i> (Grey Mould) Black spot (<i>Colletotrichum acutatum</i>) QUALIFIED MINOR USE RECOMMENDATION. The evidence of effectiveness against black spot is limited.
Protected and Outdoor Raspberry, Blackberry	<i>Botrytis</i>
Outdoor crops Ribes Spp. (Redcurrant, Blackcurrant, Gooseberry) and Other berries (Blueberry, Bilberry, Cranberry)	<i>Botrytis</i> . QUALIFIED MINOR USE RECOMMENDATION. The evidence of effectiveness against botrytis on these crops is limited.
Apples, Crab Apples, Quince and Pears	When Clayton Gear is applied in a pre-harvest spray programme a reduction in the following orchard and storage rots may be achieved: <i>Botrytis cinerea</i> (<i>Botryotinia fuckeliana</i>) <i>Fusarium</i> spp. <i>Monilinia</i> spp. <i>Gloeosporium</i> spp. <i>Nectria</i> spp. <i>Alternaria</i> spp. <i>Penicillium</i> spp. <i>Venturia</i> spp. <i>Colletotrichum</i> spp.
Pears	<i>Stemphylium vesicarium</i> (brown spot) [Moderate control]
Ornamental plant production & forestry nursery	<i>Botrytis</i>

CROP SPECIFIC INFORMATION

Best results will be achieved from applications of **Clayton Gear** made in the earliest stage of disease development or as a protective treatment following a disease risk assessment or the use of appropriate support systems.

Fresh beans (dwarf French, green, runner, broad beans) and dried beans (dwarf French, navy [phaseolus], kidney, haricot, dried broad beans)

Rate Of Use: 1 kg product per hectare

Timing: **Clayton Gear** should be applied at the first signs of disease infection, from early flowering onwards.

A second application may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

Beans for processing: If a crop of beans is destined for processing, consult your processor before treating with **Clayton Gear**.

Vining peas, edible podded peas and dried peas (combining peas including marrowfat)

Rate Of Use: 1 kg product per hectare

Timing: **Clayton Gear** should be applied at the first sign of disease infection, from early flowering onwards.

A second application may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

Crop Safety: **Clayton Gear** shows good crop safety on vining peas. Before applying ensure the crop is free from any stress caused by environment or agronomic effects. Check wax level if necessary using the Crystal Violet test.

Peas for processing: If a crop of peas is destined for processing, consult your processor before treating with **Clayton Gear**.

Carrots

Rate Of Use: 0.8 Kg product per hectare

Timing: For optimum results apply **Clayton Gear** at the first signs of disease, from 4th true leaf unfold onwards (BBCH 14). A further two applications may be required if disease pressure remains high. Allow a minimum of 12 days between applications.

Carrots for processing: If a crop is destined for processing, consult your processor before treating with **Clayton Gear**.

Celeriac

Rate Of Use: 0.8 Kg product per hectare

Timing: For optimum results apply **Clayton Gear** at the first signs of disease, from the 4th true leaf unfold onwards (BBCH 14). A second application may be required if disease pressure remains high. Allow a minimum of 14 days between applications for crops.

Protected and outdoor strawberries

Rate Of Use: 1 Kg product per hectare.

Timing: For optimum results apply **Clayton Gear** as a protectant spray at the beginning of blossom (white bud). A second application of **Clayton Gear** can be made if disease pressure remains high. Application should be made in sequence with other products as part of a fungicide programme during flowering at a minimum interval of 10 days.

Strawberries for processing: If a crop of strawberries is destined for processing, consult your processor before treating with **Clayton Gear**.

Raspberry and blackberry

Rate Of Use: 1 Kg product per hectare.

Timing: **Clayton Gear** should be applied as a protectant spray from early flower (white bud). A further two applications may be required if disease pressure remains high. Allow a minimum of 10 days between applications for all crops.

Processing: Where a crop of fruit is destined for processing, consult your processor before treating with **Clayton Gear**.

Outdoor crops of blueberry, bilberry, cranberry, redcurrant, blackcurrant and gooseberry

Rate Of Use: 1 Kg product per hectare.

Timing: **Clayton Gear** should be applied as a protectant spray from late grape stage of currants and first open flower for gooseberry and other berries. A further two applications may be required if disease pressure remains high. Allow a minimum of 10 days between the first and second application and 28 days between the second and third application.

Processing: Where a crop of fruit is destined for processing, consult your processor before treating with **Clayton Gear**.

Apple, crab apple, quince and pear

Rate Of Use: 0.8 Kg product per hectare.

Timing: For optimum results apply **CLAYTON GEAR** as a protectant spray from the end of flowering. Two further applications of **CLAYTON GEAR** may be made if disease pressure remains high up to 3 days prior to harvest.

Application should be made in sequence with other products as part of a fungicide programme. Allow a minimum of 7 days between applications.

For best control of *Stemphylium* in pears three applications should be made shortly after fruit set in late May and early June.

Specific warning for Bramley apple: Limited trials data show that when **Clayton Gear** is used on Bramley apple there is the potential for increased fruit russetting to occur. Growers should be aware of this and consult with processors or marketing organisations where necessary before using the product.

Ornamental plant production and forestry nursery (outdoor and protected)

Rate Of Use: 1 kg product per hectare (OUTDOOR), 0.8 kg product per hectare (PROTECTED)

Timing: **Clayton Gear** should be applied as a protectant spray. A further two applications may be required if disease pressure remains high. Allow a minimum of 7 days between applications.

Crop tolerance: **Clayton Gear** has been successfully used at the recommended doses on a range of species and cultivars without crop damage. However because of the large number of species and cultivars of ornamentals, cultivar susceptibility should always be checked by treating a small number of plants in the first instance.

Multiple applications of **Clayton Gear** to Anemone, Begonia, Kalanchoë have shown some phytotoxicity symptoms therefore it is advised to limit the number of applications to two with an extended application interval of 10 days.

Use only a single application on Saintpaulia.

Application to *Exacum affine* and *Impatiens* spp. is not advised.