

phantom

An emulsifiable concentrate formulation containing 125 g/l of fluzafop-P-butyl (13.7% w/w) for use as an agricultural herbicide for use on oilseed rape, vining peas, field beans, sugar beet, fodder beet, beetroot, red beet, carrots, parsnip, radish, horseradish, mangel, parsley root, swede, turnip, salsify, onions, garlic, shallot, celeriac, potato, chicory root, forestry, around trees, around cane and bush fruit.

5L

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE
FOR PROFESSIONAL USE ONLY**

SAFETY INFORMATION



WARNING

**Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects**

Keep out of reach of children.
Use personal protective equipment as required.
If exposed or concerned: Get medical advice/attention.
Collect spillage.
Contains fluzafop-P-butyl. May produce an allergic reaction.

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.
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 avoid risks to human health and the environment, comply with the instructions for use.

PCS No: 06380

Precautions

If exposed or if you feel unwell seek medical advice immediately (show the label where possible).
No specific antidote is available. Treat symptomatically.
In case of accident, call the 24-hour National Poisons Information Centre: Tel.: +353 (0)1 809 2566 or +353 (0) 1 837 9964.

Batch no.: See container

Registration holder: Sharda Cropchem España S.L.
Edificio Atalayas Business Center,
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Murcia,
Spain

Phone no.: +34 868 12 75 89

Distributed by: Sharda Cropchem España S.L.

Emergency no.: In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964

Instructions for use

FOR PROFESSIONAL USE ONLY AS AGRICULTURAL HERBICIDE				
Crop	Maximum single dose	Maximum number of applications	Maximum total dose	Latest time of application
Oilseed rape	2.0 L/ha	1 per crop	2.0 L/ha	Before flowering and 90 days before harvest
Vining pea	1.5 L/ha	1 per crop	1.5 L/ha	Before flowering and 35 days before harvest
Field bean	2.0 L/ha	1 per crop	2.0 L/ha	Before flowering and 90 days before harvest
Sugar beet, fodder beet	3.0 L/ha	1 per crop	3.0 L/ha	Before 50% ground cover and at least 56 days before harvest
Carrot, horseradish, mangel, parsley root, parsnip, radish, red beet, salsify, swede, turnip	2.0 L/ha	1 per crop	2.0 L/ha	Before 50% ground cover and at least 49 days before harvest
Onion, garlic, shallot	3.0 L/ha	1 per crop	3.0 L/ha	28 days before harvest
Celeriac	3.0 L/ha	1 per crop	3.0 L/ha	Before 50% ground cover and at least 49 days before harvest
Potato (ware)	2.0 L/ha	1 per crop	2.0 L/ha	Before flowering and 90 days before harvest
Blackcurrant and redcurrant (around), blueberry (around), gooseberry (around)	1.0 L/ha	1 per year	1.0 L/ha	90 days before harvest
Blackberry (around), raspberry (around), loganberry (around)	1.0 L/ha	1 per year	1.0 L/ha	45 days before harvest
Forestry	3.0 L/ha	1 per year	3.0 L/ha	-
Forest nursery	3.0 L/ha	1 per year	3.0 L/ha	-

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.

Specific restrictions:
When using around bush and cane fruit or in farm forestry, this product must only be applied to the area immediately around trees. The total surface area treated must be equal to or less than 30% of the total area. To protect groundwater do not apply this product until large weeds have established and ground cover has reached approximately 25%.

Method of application:
Tractor mounted/trailed sprayer only.

Specific weeds controlled

The following weeds are controlled by post-emergence applications at the rate given below. Refer also to the crop recommendations for the maximum recommended rate in each crop.

Weed type/species	Application rate	Weed growing stage
Sterile brome Volunteer cereals Wild oats Italian ryegrass Perennial ryegrass	1.5 L/ha	2 expanded leaves are fully tilled.
Barley cover crops	2.0 L/ha	See notes below on cover crops.
Black bent Creeping bent Common couch	3.0 L/ha	4 leaves. The majority of stems should have emerged.

PHANTOM is rapidly absorbed through the leaves and moves upwards and downwards throughout the plant to the growing points. PHANTOM is effective against both annual and perennial grass weeds including Common couch. Decay of the growing points in stems is visible after 7 days. Foliar kill is complete in 3 – 4 weeks when weeds are actively growing under warm conditions.

PHANTOM is independent of soil type as it acts through the foliage.

Optimum control of weeds

For best release from early competition use PHANTOM at the earliest recommended time.

Speed of kill will be more rapid when weeds are actively growing under warm conditions and with adequate soil moisture. Treatment under cool conditions will give slower activity. In poor growing conditions use the higher rate for more rapid and reliable control.

Couch control is best when the rhizomes have been fragmented by cultivation or seedbed preparation. This encourages maximum emergence of couch shoots providing a good actively-growing target for the PHANTOM spray. In perennial crops, where the rhizomes are left undisturbed regrowth may occur from dormant buds.

Under dry conditions control of weeds may be reduced. For maximum effect on Common couch do not cultivate for 2 weeks after spraying. The effect of PHANTOM on overwintered weeds has not been investigated.

Strains of some annual grasses (e.g. black-grass, wild oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Contact your distributor, crop advisor or product manufacturer for further information.

Annual Meadow-grass and broad-leaved weeds are not controlled.

Weeds germinating after application will not be controlled.

Weather

PHANTOM is rainfast within 1 – 2 hours of application.

Agricultural practice

Avoid drift and possible damage to neighbouring crops. Do not spray in windy weather, especially if applying a FINE spray when the risk of drift is increased.

Cereal or grass crops should not be sown for at least 8 weeks after application of the 3.0 litres per hectare rate or at least 2 weeks after application of the 1.0 – 1.5 litres per hectare rates.

Before using in onions and vining or dried peas check that there is sufficient leaf wax using the crystal violet test. When in doubt and where the wax is insufficient or damaged do not spray. Use the crystal violet test as a routine before sequentially applying herbicides.

Cover crops

Spray when the risk of wind blow has passed and before there is serious competition with the crop. To remove cover crop, use 1.0 litre per hectare except where any of the following factors apply, then 2.0 litres per hectare must be used:

- Where spraying is late and a quick kill is required to avoid competition.
- Where the cover crop is drilled overall.
- Where the cover crop is well developed i.e. leaf sheath erect stage or later.
- Where the crops are under moisture stress.

Note: Where a significant grass weed problem is present, the rate appropriate to the weed species must be used if this is higher than the rate required for cover crop removal.

Mixing and spraying

Preparation of spray

Half fill the spray tank with CLEAN water and start agitation. Shake the container and add the correct amount of PHANTOM to the sprayer using a filling device (e.g. induction hopper) or by direct addition to the spray tank. Complete filling and agitate thoroughly. Continue agitation during spraying and stoppages.

Wash out container thoroughly. Preferably use an integrated pressure rinsing device or manually rinse three times. Add washings to the sprayer at the time of filling.

Dispose of rinsed containers safely according to Local Code of Practice.

Volume of water

Even cover of the weeds is essential for good results.

80 to 200 litres per hectare may be used in open crops with light weeds infestation.

200 to 500 litres per hectare should be used in dense weed situations.

Application methods

Even cover of the weeds is essential for good results. Apply through a conventional hydraulic sprayer using a pressure of 2 - 4 bars. For spray volumes 80 to 200 litres per hectare apply as a FINE spray. For spray volumes above 200 litres per hectare apply as a MEDIUM spray.

Ensure that the sprayer is properly cleaned and washed before use, as spray contamination may damage crops.

Correctly calibrate sprayer before use. Do not leave spray liquid in the sprayer for long periods (i.e. during meals or overnight).

Application by air or through controlled droplet application equipment is not permitted. Do not apply by knapsack or other hand-held sprayers.

Band spraying

PHANTOM may be applied through a standard band sprayer for the control of annual grass weeds. Common couch may be treated but re-growth from

untreated band may reduce efficacy.

After use

Wash equipment thoroughly after use with a commercial tank cleaner, in accordance with the manufacturer's instructions. Dispose of tank washings and rinse containers safely according to the local Code of Practice.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

Compatibility

PHANTOM may be tank-mixed with a variety of plant protection products providing that the application timing is correct for both PHANTOM and the partner(s) in the mixture.

The product should be added separately to the bulk of water in the spray tank. Continuous agitation should be maintained and the products used immediately after mixing.

For further information on the approval status of mixture partners, consult Sharda Cropchem España S.L.

Use in programmes

PHANTOM may be used in programmes with herbicides approved for the relevant crop, provided there is a 3 days interval between applications. Ensure herbicide sensitive crops are unaffected and actively growing before treatment.

PHANTOM may be used in programmes with low volume, low dose sprays in sugar beet, provided there is a 3 days interval between applications.



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