



Fusilade Max[®]

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Product registration number: MAPP 11519

Contains 125g fluazifop-P-butyl per litre an emulsifiable concentrate.

A herbicide for post emergence control of annual and perennial grass-weeds and volunteer cereals in broad leaved crops, farm forestry and non-cropped field margins.

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

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The product label is compliant with
the CPA Voluntary Initiative (VI) guidance.



PROTECT FROM FROST

In case of toxic or transport emergency ring (01484) 538444 any time © Syngenta AG, 2014

SAFETY PRECAUTIONS

(a) 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.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle-mounted equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND RUBBER BOOTS when applying by hand-held equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when adjusting or maintaining equipment or handling contaminated surfaces.

However, engineering controls may replace per-

sonal 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 CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

(c) 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 rinse three times. Add washings to sprayer at time of filling and dispose of safely.

5 litres

Product names marked © or ™, the ALLIANCE FRAME logo, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company



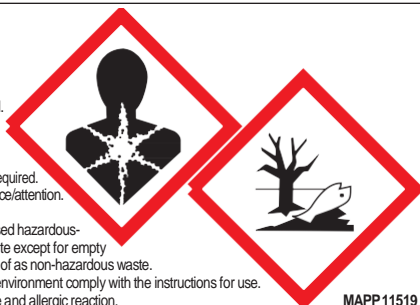
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FUSILADE MAX

Contains 125 g fluzafop-p-butyl per litre
an emulsifiable concentrate.

Signal Word Warning
Hazard Suspected of damaging the unborn child.
Statements Very toxic to aquatic life with long lasting effects.
Precautions Keep out of reach of children.
Statements 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.

Supplemental Information To avoid risks to human health and the environment comply with the instructions for use.
 Contains fluzafop-P-butyl. May produce and allergic reaction.



MAPP11519

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY HERBICIDE

Crops	Maximum Individual Dose (litres product/hectare)	Maximum Number of Treatments	Latest time of application
Oilseed rape (spring, industrial use)	1.5	One per crop	2 weeks before harvest.
Oilseed rape (winter, industrial use)	1.5	One per crop	2 weeks before harvest.
Oilseed rape (spring)	1.5	One per crop	Before five true leaf stage.
Oilseed rape (winter)	1.5	One per crop	Before visible (flower) bud stage.
Carrot (outdoor use only)	3	One per crop	8 weeks before harvest.
Linseed	1.5	One per crop	Before visible (flower) bud stage.
Bulb onion (outdoor use only)	3	One per crop	4 weeks before harvest.
Vining pea, combining pea	1.5	One per crop	Before visible (flower) bud stage.
Outdoor crops of: Blackcurrant, gooseberry, raspberry, strawberry, hops.	3	One per annum	See other specific restriction marked #
Kale (for animal fodder)	3	One per crop	8 weeks before harvest or feeding.
Swede (for animal fodder), turnip (for animal fodder)	3	One per crop	Before 50% ground cover.
Field bean	3	One per crop	Before visible (flower) bud stage.
Sugar beet, fodder beet	3	One per crop	8 weeks before harvest.
Green cover on land temporarily removed from production	1.5	One per annum	-
Farm forestry	3	One per annum	-

Other Specific Restrictions:

Applications to blackcurrant, gooseberry, raspberry, hops and strawberry must not be made between flowering and harvest in the season of application.

Industrial oilseed rape, linseed and flax must not be harvested for human or animal consumption nor grazed.

When applying in farm forests this product must not be used for forestry establishment on land that was not previously under arable cultivation or improved grassland.

When applying to non-cropped field margins and/or green cover on land temporarily removed from production: treated vegetation must not be grazed or harvested for human or livestock consumption. Unprotected persons must be kept out of treated areas for at least 24 hours after treatment. A full green cover must be established before the pesticide is applied.

To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing fluzafop-butyl..

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.

This leaflet is part of the approved Product Label.

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.

GENERAL INFORMATION

FUSILADE MAX containing fluazifopPbutyl is a herbicide for control of Wildoats, volunteer cereals and other grass weeds, postemergence in broad-leaved crops and other situations.

FUSILADE MAX is rapidly absorbed through the leaves and moves upwards and downwards throughout the plant to the growing points. FUSILADE MAX 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 34 weeks when weeds are actively growing under warm conditions.

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

CROPS AND SITUATIONS

FUSILADE MAX may be used in the following crops and situations:

Combinable Crops: Winter oilseed rape, Spring oilseed rape, Winter and Spring oilseed rape for industrial use, Linseed, Flax, Linseed and flax for industrial use, Field Beans, Vining and Dried Peas.

Root Crops: Sugar and Fodder beet, Carrots, Stockfeed Swede and Stockfeed Turnip.

Fruit Crops: Blackcurrants, Gooseberries, Raspberries and Strawberries.

Other Crops: Hops, Onions and Stockfeed Kale

Farm Forestry: Hardwood and coniferous trees established on land previously under arable cultivation or improved grassland.

Other situations: Non-cropped field margins (boundary strips), removal of green cover on land temporarily removed from production (set-aside) and removal of barley cover crops drilled to protect crops from wind-blow.

RESTRICTIONS

Consult processors before treating crops intended for processing

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 litres per hectare rate or at least 2 weeks after application of the 1 – 1.5 litres per hectare rates.

Annual Meadowgrass and broadleaved weeds are not controlled.

Weeds germinating after application will not be controlled.

FUSILADE MAX is rainfast within 1-2 hours of application.

WEEDS CONTROLLED

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

Weed type/species	Application Rate litres/hectare	Weed growth stage
ANNUAL GRASS-WEEDS		
Black-grass Barren (Sterile) Brome Volunteer Cereals Wild Oats	1 or 1.5	2 expanded leaves to fully tillered. The higher rate will give more rapid and reliable control of well tillered weeds.
Barley cover crops	1 or 2.0	See notes below on cover crops
PERENNIAL GRASS-WEEDS		
Italian Rye-grass Perennial Rye-grass	1.5	2 expanded leaves to fully tillered.
Black Bent Creeping Bent (Watergrass) Common Couch	3	4 leaves. The majority of stems should have emerged.

RESISTANCE MANAGEMENT

This product contains fluzafop-p-butyl which is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group A'.

Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass-weed control.

Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

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. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

CROP SPECIFIC INFORMATION

RATES OF USE AND SPRAY TIMING		
RATES OF APPLICATION	TIMING OF APPLICATION (CROP GROWTH STAGE)	NOTES
BLACKCURRANTS, GOOSEBERRIES, HOPS, RASPBERRIES, STRAWBERRIES		
1 - 3 l/ha	Before flowering or after harvest.	Where possible, a directed spray should be used.
CARROTS		
1 - 3 l/ha	From 2 true leaf stage until 8 weeks before harvest.	Best results with applications made before 50% ground cover.
FARM FORESTRY		
1 - 3 l/ha	See Farm Forestry Section for details	Trees are most sensitive immediately after bud burst/flushing. Overall or directed sprays can be used but it is not advisable to apply overall when trees are at bud burst/flushing and before new foliage has hardened in the Spring.
FIELD BEANS		
1 - 3 l/ha	From second node stage but before first flower bud visible.	
KALE (STOCKFEED ONLY)		
1 - 3 l/ha	From 4 true leaf stage until 50% crop ground cover.	A slight crop check may occur together with some de-waxing, but this is soon outgrown.
LINSEED, FLAX		
1 - 1.5 l/ha	From 2 true leaf stage (GS4) to stem extension 20cm in height and before visible (flower) buds stage (GS6)	At these rates Common Couch will be suppressed.
LINSEED AND FLAX USED AS AN INDUSTRIAL CROP		
1 - 1.5 l/ha	From 2 true leaf stage (GS4) to stem extension 20cm in height and before visible (flower) buds stage (GS6).	At these rates Common Couch will be suppressed.
SPRING OILSEED RAPE		
1 - 1.5 l/ha	From 1 true leaf to before 5 true leaves. Crops may be treated at the cotyledon stage if there is severe weed competition.	At these rates Common Couch will be suppressed.

RATES OF USE AND SPRAY TIMING		
RATES OF APPLICATION	TIMING OF APPLICATION (CROP GROWTH STAGE)	NOTES
WINTER OILSEED RAPE (INCLUDING FOR USE AS AN INDUSTRIAL CROP)		
1 – 1.5 l/ha	From 1 true leaf to before visible (flower) bud stage. Crops may be treated at the cotyledon stage if there is severe weed competition.	At these rates Common Couch will be suppressed.
SPRING OILSEED RAPE USED AS AN INDUSTRIAL CROP		
1 – 1.5 l/ha	From 1 true leaf but before crop shading masks the target weeds. Crops may be treated at the cotyledon stage if there is severe weed competition.	At these rates Common Couch will be suppressed.
ONIONS *		
1 - 3 l/ha	From 2 true leaf stage until 4 weeks before harvest.*	May be used in autumn or spring provided weeds are actively growing.
VINING AND DRIED PEAS *		
1 – 1.5 l/ha	From fourth node stage but before 1st flower visible.*	At these rates Common Couch will be suppressed.
SUGAR AND FODDER BEET		
1 - 3 l/ha**	From 1 true leaf stage to approximately 50% ground cover, but not later than 8 weeks before harvest.	
SWEDE (STOCKFEED ONLY)		
1 – 3 l/ha	From 4 true leaf stage until 50% crop ground cover.	A slight check to growth, crinkling of foliage and de-waxing may occur which is soon outgrown.
TURNIPS (STOCKFEED ONLY)		
1 – 3 l/ha	From 4 true leaf stage until 50% crop ground cover.	A slight check to growth, crinkling of foliage and de-waxing may occur which is soon outgrown.

RATES OF USE AND SPRAY TIMING		
RATES OF APPLICATION	TIMING OF APPLICATION (CROP GROWTH STAGE)	NOTES
NON-CROPPED FIELD MARGINS (BOUNDARY STRIPS)		
1 – 1.5 l/ha	1 per year. Non-cropped field margins apply November, December. Boundary strips apply autumn or spring. Consult conservation adviser before use.	For control of barren brome and other grass weeds in non-cropped field margins. For establishing sown fescue and flower mix boundary strips, apply before grass weeds become competitive. For managing sown or naturally re-generated boundary strips, treat when necessary to control grass weeds and maintain species diversity. For details of weed susceptibilities see Non-cropped Field Margin (Boundary strips) section below.
REMOVAL OF GREEN COVER ON LAND TEMPORARILY REMOVED FROM PRODUCTION (SET-ASIDE)		
1 – 1.5 l/ha	1 per year. Late autumn or early spring. Do not apply if insufficient green cover will remain. Do not apply where the green cover is predominantly cereal volunteers.	For the control of barren brome, black-grass, cereal volunteers and other grass-weeds in one year or long term naturally re-generating cover or where a specific fescue and flower mix has been sown. Do not apply if cover is to be grazed by livestock or harvested for human consumption. For details of weed susceptibilities see Non-cropped Field Margin (Boundary strips) section below.

NOTES

1. Use rates according to weed species present (see Weed Control table).
2. * 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.
3. ** For use on sugar beet and fodder beet, maximum total dose is 3.0 litres of product/hectare/crop.
4. Before using this product on land taken out of production as part of a grant aided scheme, ensure compliance with the management rules of that scheme.

FARM FORESTRY

FUSILADE MAX may be applied by tractor-mounted sprayer as an overall or band treatment in farm forestry. A total of 3 litres of FUSILADE MAX per hectare per year may be applied. The following tree species are tolerant to FUSILADE MAX at any interval after planting, when dormant or in leaf:

BROAD LEAVED	CONIFEROUS
Alder	Japanese Larch
Ash	Silver Fir
Beech	Douglas Fir
Elm	Cypress
Common Oak	Blue Spruce
Sycamore	Norway Spruce
Willow	Sitka Spruce
Maple	Pine
	Thuja
	Noble Fir

Timing of Application

The timing of application is determined by the growth stage of the target weed (see weed control Table above). FUSILADE MAX is not recommended for the destruction of established grass swards.

Overall or directed sprays can be used but it is not advisable to apply overall when trees are at bud burst/flushing and before new foliage has hardened in the spring. Do not apply FUSILADE MAX during periods of bright sunlight or high temperatures as this may lead to foliage scorch. If applications are needed in mid summer then they should be made in the evening. Do not apply FUSILADE MAX when the ground is waterlogged or the trees are under stress from drought.

NON-CROPPED FIELD MARGINS (BOUNDARY STRIPS)

FUSILADE MAX at rates between 1 – 1.5 litre per hectare will control many of the important grass-weeds (barren brome, black-grass and wild-oats) which can adversely affect the establishment or maintenance of sown or naturally regenerating boundary strips. FUSILADE MAX is safe to annual and perennial dicotyledonous (broad-leaved) species and a range of *Festuca* species. However, FUSILADE MAX can reduce the frequency of a number of other non-target grasses.

The following table lists the species that are known to be RESISTANT to FUSILADE MAX at rates between 1 and 1.5 l/ha.

Annual and perennial dicotyledonous species - All		
Grasses	Crested dogstail	- <i>Cynosurus cristatus</i>
	Sheeps Fescue	- <i>Festuca ovina</i>
	Hard Fescue	- <i>Festuca longifolia</i>
	Chewings fescue	- <i>Festuca rubra</i> spp <i>commutata</i>
	Red fescue	- <i>Festuca rubra</i> spp <i>purinsoa</i>
	Fine-leaved sheeps fescue	- <i>Festuca tenuifolia</i>
	Annual meadow-grass	- <i>Poa annua</i>

The dynamics and manipulation of species populations in the boundary strip is complex. The wrong timing of both cultural and chemical treatments can have an adverse affect on non-target species. If in doubt, always consult your conservation advisor before using FUSILADE MAX in this situation.

COVER CROPS

Spray when the risk of wind blow has passed and before there is serious competition with the crop. To remove cover crops, 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.

USE IN PROGRAMMES

FUSILADE MAX may be used in programmes with herbicides approved for the relevant crop, provided there is a 7 day interval between applications. Ensure herbicide sensitive crops are unaffected and actively growing before treatment.

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

MIXING AND SPRAYING

Mixing

Half fill the spray tank with CLEAN water and start agitation. Shake the container and add the correct amount of FUSILADE MAX 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 DEFRA /HSE 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 weed infestations.

200 to 500 litres per hectare should be used in dense crop or 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 24 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, 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.

BAND SPRAYING

FUSILADE MAX 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 DEFRA Code of Practice.

COMPANY ADVISORY INFORMATION

Optimum Control Of Weeds

For best release from early competition use FUSILADE MAX 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 FUSILADE MAX 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 effects of FUSILADE MAX on overwintered weeds have not been investigated.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at user's risk.

FUSILADE MAX is a trade mark of a Syngenta Group Company.

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WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND RUBBER BOOTS when applying by hand-held equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when adjusting or maintaining equipment or 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.

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