Bismark® CS

MAPP 21290

A Capsule Suspension (CS) formulation containing 55 g/L Clomazone and 275 g/l Pendimethalin.

GROUP 3 | 13 HERBICIDES

Bismark® CS is a residual herbicide which can be used in all varieties of combining pea, vining pea, spring field beans, winter field beans and potato.

HERBICIDE

RISK & SAFETY INFORMATION - 24 HOUR EMERGENCY NUMBER:
England, Scotland & Wales: 111; Northern Ireland: Local GP or Pharmacist. SIPCAM UK Ltd: 01763 212100.
Medical Professionals only: National Poisons Information Centre UK : 0344 892 0111.

DANGER



Suspected of damaging the unborn child.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.
Avoid breathing vapours/spray.
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Dispose of contents/container to a licensed hazardous-waste disposal contactor or collection site except for triple rinsed empty 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.
Contains 1,2-benzisothiazolin-3-one. May produce an allergic skin reaction.

UFI: YMSH-Y0VQ-YC0U-94VP

SHAKE WELL BEFORE USE **PROTECT FROM FROST**

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

SIPCAM UK CONDITIONS OF SUPPLY: All goods supplied by us are of high grade, but as we cannot exercise control over their mixing or use, all conditions, and warranties, statutory or otherwise, as to the quality or fitness of our goods for any purpose, are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

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Net contents:
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Scan to view the Safety Data Sheet

Alternatively,download theSafety Data Sheet from **sipcamuk.co.uk** or contact your supplier.

SIPCAM UK

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFFESIONAL HERBICIDE

Crops	Maximum individual doses: (L product/hectare)	Maximum number of treatments	Latest time of application	Aquatic buffer zone (m)
Potato	2.0 L / ha	1	Pre-crop emergence	12
Combining peas, vining peas	2.0 L / ha	1	Pre-crop emergence	12
Field beans (outdoors)	2.0 L / ha	1	Pre-crop emergence	12

READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER THAT IS INCONSITENT WITH THE LABEL MAY BE AN OFFENCE.
FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Other specific restrictions
Do not apply via hand-held equipment
Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the LERAP scheme

Low drift spraying equipment must be operated according to the specific conditions stated in the official three-star rating for that equipment as published on HSE Chemicals Regulation Division's website. These operating conditions must be maintained until the operator is 30m from the top of the bank of any surface water bodies.

Environmental Protection

To protect non-target plants, respect an untreated buffer zone of 10 metres to non-crop land.
To protect aquatic organisms, respect an unsprayed buffer zone to surface water bodies as specified for the crop. HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY for all uses. Low drift spraying equipment must be operated according to the specific conditions stated in the official three-star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three-star operating conditions until 30 m from the top of the bank of any surface water bodies.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.
Since there is a risk to aquatic life from use, direct spray from horizontal boom sprayers must not be allowed to fall within the distance specified for the crop of the top of the bank of any static or flowing waterbody or within 1m of the top of a ditch which is dry at the time of application.
Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' available from HSE Chemicals Regulation Division's website and any amendments made to it.
The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years.
Spray must be aimed away from water.

Operator Protection

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH HANDS AND EXPOSED SKIN before meals and after work.

Storage & Disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
RINSE CONTAINER THOROUGHLY manually rinsing three times. Add washings to sprayer at the time of filling and dispose of safely.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
Do not clean application equipment near surface water.
Avoid contamination via drains from farmyards and roads.

Worker Protection

Treated crops should not be re-entered before spray deposits on leaf surfaces have completely dried.

This leaflet/booklet is part of the authorised Product Label

DIRECTIONS FOR USE

IMPORTANT: This information is authorised 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. Effectiveness using three-star drift reduction technology may be reduced.

WEEDS CONTROLLED

Bismark® CS is a residual herbicide which can be used in all varieties of combining pea, edible podded pea, vining pea, spring field beans, winter field beans and potato.

Weed Susceptibility:
All weed susceptibility ratings in the table below are for applications made pre-emergence of the weeds.

CROPS	Potatoes	Spring Peas	Spring Field Beans	Winter Field Beans
RATE (litres/ha)	2.0	2.0	2.0	2.0
Annual meadowgrass	S	S	S	MS
Black Nightshade	S	S	S	-
Cleavers	S	S	S	S
Common Chickweed	S	S	S	S
Common Groundsel	S	-	-	S
Common Orache	-	S	-	-
Cranesbill species	S	-	-	-
Fat-hen	S	S	S	-
Field forget-me-not	-	S	S	-
Field Pansy	-	MS	MS	MS
Field Penny-cress	S	-	-	-
Mayweeds	MS	-	-	-
Red Dead-Nettle	S	-	-	-
Polygonum species	S	S	S	-
Shepherd's Purse	S	S	S	-
Perennial Sowthistle	-	S	S	-
Speedwells	S	S	S	S

S = Susceptible
MS = Moderately susceptible

TIMING

Combining peas: Bismark® CS should be applied as soon as possible following sowing of the crop and before emergence of both the crop and target weeds.

CROP SPECIFIC INFORMATION

It is important for crop safety that the seed is covered by a minimum of 25mm of soil. Direct-drilled crops should be harrowed across slits to cover the seed before spraying. Where direct drilled crops are treated, ploughing and cultivating to a depth of 25cm must take place before the planting of any subsequent crop. For optimum efficacy seedbeds should be firm, level and free of clods, loose and puffy seedbeds should be consolidated before spraying. Unconsolidated clods (especially if larger than 75 mm (3") diameter) may reduce the level of weed control and cause seed to be inadequately covered, which could result in crop damage

Potatoes:	
Rate	2.0 l/ha
Number of applications	1
Water volume	200-300 litres/hectare.
Timing	Pre-crop emergence Apply as soon as possible after the last ridging and before soil cracking (usually 7 days before emergence)

Combining pea and vining pea* (Spring):	
Rate	2.0 l/ha
Number of applications	1
Water volume	200-300 litres/hectare.
Timing	Pre-crop emergence Within 3 days of sowing

Field beans (Spring & Winter):	
Rate	2.0 l/ha
Number of applications	1
Water volume	200-300 litres/hectare.
Timing	Pre-crop emergence Within 3 days of sowing

*Bismark CS ® may be used on vining peas as a minor use recommendation as crop safety is based on limited data. The impact of Bismark CS® on taint in vining peas has not been assessed.

FOLLOWING CROPS

Following crops after normal harvest:
Following normal harvest of a spring treated crop, cereals, oilseed rape, field beans, combining peas, potatoes, maize, linseed, sugar beet and turnip may be sown. Prior to planting, soil should be ploughed and cultivated to a minimum depth of 25cm.

In the event of crop failure:
In the event of crop failure, the land must be ploughed or thoroughly cultivated to a minimum depth of 25cm to ensure any residues are evenly dispersed throughout the soil. In the event of crop failure, the minimum intervals (specified below) should elapse between application of Bismark® CS and the sowing of one of the following crops listed:

Application timing	Minimum interval	The following crops may be drilled
Autumn	5 months	Field beans. Combining peas, potatoes
	7 months	Maize. Onion, spring wheat, spring barley, turnip, linseed
Spring	3 months	Field beans (spring), combing peas, carrots, turnip, linseed
	5 months	Maize, potato
	12 months	Onion, sunflower, sugar beet

MIXING AND SPRAYING

Mixture Preparation:

Never prepare more spray solution than is required.

Half fill the tank with clean water and start the agitation. To ensure thorough mixing of the product, invert the container several times before opening. Add the required quantity to the spray tank while re-circulating. Fill up the tank with water and continue agitation until spraying is completed.

When tank mixes are to be used, take due note of any instructions given as to the order of mixing. Each product should be added separately to the spray tank and fully dispersed before the addition of any further product(s).

Use immediately after mixing.

On emptying the container, rinse containers thoroughly. Add washings to sprayer at time of filling and dispose of container safely.

Application:

Ensure good, even spray cover of the target using a COARSE quality spray, as defined by BCPC.

Sprayer cleaning:

Trace amounts of Bismark® CS remaining in spray equipment can damage subsequently treated crops. Immediately after use of Bismark® CS, spray equipment should be thoroughly cleaned. Growers should consult manufacturer's guidance for procedures for their specific equipment and use a combination of triple rinsing and agitation with clean water. Completely fill spray tanks with clean water at each rinse and ensure that spray equipment is thoroughly flushed. Spray equipment should not be drained or flushed onto land planted with or intended for planting with trees or crops other than peas or beans.

RESTRICTIONS OR WARNINGS

Do not apply to broadcast crops.

Some transient crop bleaching may occur under certain climatic conditions and can be severe where heavy rainfall follows application. This transient crop effect is rapidly outgrown and has no effect on crop yield.

Do not use on soils that are compacted or of a poor structure which may then be liable to water logging.

Reduced levels of weed control may occur if application is made to dry cloddy seedbeds or if a prolonged dry period follows application.

Do not overlap spray swaths as reduction in yield may occur.

For crop safety ensure Seed is well covered with a MINIMUM of 2.5cm of settled soil.

Do not use on sands or very light soils. Do not use on soils with more than 10% organic matter.

Consult processors before using on crops for processing.

The safety of Bismark® CS to daughter tubers has not been tested. Consult the manufacturer or your advisor before using on seed crops. Contract agents should be consulted before using on crops grown for seed.

Use immediately, do not leave spray solution standing in the spray tank.

EXTREME CARE MUST BE TAKEN TO AVOID SPRAY DRIFT to avoid damage to plants outside the target area.

DO NOT APPLY under windy conditions.

Do not cultivate after application.

Crops emerged at the time of application may be severely damaged.

Other Specific Restrictions:

Do not apply via hand-held equipment.

Buffer zones greater than 5m are NOT eligible for buffer zone reduction under the LERAP scheme. Low drift spraying equipment must be operated according to the specific conditions stated in the official three-star rating for that equipment as published on HSE Chemicals Regulation Division's website. These operating conditions must be maintained until the operator is 30m from the top of the bank of any surface water bodies.

Resistance Management

There is a risk for the development of weed resistance to BISMARK® CS. BISMARK® CS contains clomazone (HRAC Group 13 herbicide, previously Group F4) and pendimethalin (HRAC Group 3 herbicide, previously Group K1). A strategy for preventing and managing such resistance should be adopted that includes alternation with herbicides with a different mode of action and a similar spectrum of activity. Maximise the use of cultural control measures such as crop rotation and stale seedbeds wherever possible and investigate any reasons for poor control.

Strains of some annual grasses, e.g. black-grass, wild-oats, and Italian ryegrass, 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 AHDB, Crop Life UK, your distributor, crop adviser or product manufacturer.

Stewardship

There is a risk to adjacent crops and non-crop vegetation from the volatilisation of Bismark® CS. This may result in damage/bleaching to neighbouring vegetation. If effects are seen, they must be reported via the stewardship program see https://www.sipcamuk.co.uk/stewardship-programme/ or contact your SIPCAM UK Ltd representative directly.

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