



Caligula®

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GROUP 3 | 7 FUNGICIDES

A mixture of a carboxamide and triazolothione fungicide for disease control in potatoes and sugar beet.

MAPP 20108

A suspo emulsion formulation containing 125 g/L (12% w/w) fluopyram and 125 g/L (12% w/w) prothioconazole.

This product must be sold and used only in England, Scotland and Wales

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

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CALIGULA

UF1: 6E80-S0DX-N00H-NC5Q

Contains 125 g/L (12% w/w) fluopyram and 125 g/L (12% w/w) prothioconazole

**Warning**

Very toxic to aquatic life with long lasting effects.

Protect from sunlight.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

To avoid risks to human health and the environment, comply with the instructions for use.

Contains 1,2-Benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazole-3-one (3:1), 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione. May produce an allergic reaction.

IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops:	Potatoes and sugar beet
Maximum individual dose:	0.5 litres product per hectare in potatoes 1.2 litres product per hectare in sugar beet
Maximum total dose:	Potatoes: 1.5 litres product per hectare Sugar beet: 1.2 litres product per hectare
Earliest time of application:	Potatoes: BBCH 40 Sugar beet: do not apply before 1st of September (BBCH 40-49)
Latest time of application:	Potatoes: 21 days before harvest Sugar beet: 7 days before harvest

Other Specific Restrictions

A minimum interval of 10 days must be observed between applications in potatoes.
No more than two consecutive applications must be made in potatoes.

IMPORTANT: Note that goods treated under the terms of this Great Britain authorisation can only be legally marketed in Northern Ireland if they are in accordance with the statutory EU Maximum Residue Level (MRL) set under Regulation (EC) No 396/2005. This may also apply to residues in animal products where treated crops are fed to livestock. Growers are advised to draw this to the attention of distributors and retailers so that EU MRL breaches and any associated enforcement against goods marketed in Northern Ireland are avoided.

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.



caligulasds

To access the **Safety Data Sheet** for this product scan the code or use the link below:

www.cropscience.bayer.co.uk/caligulasds

or alternatively contact your supplier

PROTECT FROM FROST

Bayer

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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate.

However, engineering controls may replace personal 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 ANY CONTAMINATION from eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

Do not apply by hand-held equipment e.g. knapsack sprayer.

WORKERS MUST WEAR suitable protective gloves* when handling treated sugar beet crops or manually removing weed beet or bolted beet plants within 6 weeks after treatment.

*Meeting at least glove safety standard EN374-1:2016 Type A and EN388:2016 (3 1 2 1 X).

Consumer Protection

Sugar beet tops treated with Caligula must be disposed of and not fed to livestock.

A period of at least 365 days must be observed following treatment with 'Caligula' and prior to planting succeeding crops in the MRL group 'Stem vegetables'. This includes, celery, cardoons, Florence fennel and leeks.

Environmental Protection

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 protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme.

Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

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.

Caligula is a mixture of a carboxamide and triazolinthione fungicide recommended for the control *Alternaria* in potatoes and a wide range of diseases in sugar beet.

PROTECT FROM FROST

CROPS

Caligula may be used on all commercial varieties potatoes and sugar beet.

RATE OF USE

Apply Caligula at 0.5 litre per hectare in potatoes.

Apply Caligula at 1.2 litre per hectare in sugar beet.

The maximum total dose per crop is:- 1.5 litre per hectare for potatoes.

1.2 litres per hectare for sugar beet

APPLICATION

Water volume

Apply Caligula in 200-300 litres per hectare water. The higher spray volumes are recommended where the crop is dense or disease pressure / risk is high to ensure good penetration to the lower leaves and stem bases. Disease control may be compromised by reducing water volumes, where good spray coverage is difficult to achieve.

Qualified use recommendation

If required, water volumes down to 100 litres per hectare may be used; however these have not been supported by effectiveness or crop safety data.

A spray pressure of 2-3 bar is recommended.

Spray quality

Apply as a MEDIUM spray quality (as defined by BCPC).

Earliest time of application

Potatoes – BBCH 40.

Sugar beet – not before 1st September.

Latest Permitted Timing

Potatoes – 21 days before harvest.

Sugar beet – up to BBCH 49, beet root has reached harvestable size and 7 days before harvest.

Mixing

Thoroughly shake the pack before use.

Add the required quantity of Caligula to the half-filled spray tank with the agitation system in operation and then fill to the required level. Continue agitation at all times during spraying and stoppages until the tank is completely empty. Spray immediately after mixing.

General

Sprayers should be thoroughly cleaned with water and detergent after use, and filters and jets checked for damage and blockages.

Boom height should be adjusted to ensure even coverage of the crop, particularly at later growth stages. The correct height is one at which the spray from alternate nozzles meets just above the crop. In dense crops and at later growth stages higher water volumes should be used.

DISEASES CONTROLLED

Potatoes

Early blight caused by *Alternaria*.

Sugar Beet

Powdery mildew, Rust, *Cercospora* leaf spot, *Ramularia* leaf spot.

APPLICATION TIMING

Potatoes

Early blight (*Alternaria*). Apply Caligula at first signs of disease. Where disease pressure remains high a repeat application may be made 10 days later. No more than two consecutive applications of Caligula may be made.

Do not apply more than 187 g fluopyram per calendar year via foliar applications on potato.

Sugar Beet

Through controlling foliar diseases, green leaf area will be prolonged during the period up to harvest.

Do not apply Caligula before 1st of September.

Sugar beet tops treated with Caligula must be disposed of and not fed to livestock.

Specific requirements for worker re-entry in sugar beet (removal of weed beet/bolters).

Manual removal of bolters should be completed before spraying where possible.

If Caligula has been sprayed in the last 48 hours do NOT enter field to remove bolters.

WORKERS MUST WEAR suitable protective gloves* when handling treated sugar beet crops or manually removing weed beet or bolted beet plants within 6 weeks after treatment.

*Meeting at least glove safety standard EN374-1:2016 Type A and EN388:2016 (3 1 2 1 X).

For further advice on worker re-entry requirements in sugar beet consult with Bayer CropScience.

RESISTANCE STRATEGY

CAUTION: The possible development of disease strains resistant to Caligula cannot be excluded or predicted. Where such resistant strains occur, Caligula is unlikely to give satisfactory control.

For further advice on resistance management in potato and sugar beet contact your agronomist, or specialist advisor, and visit the FRAG-UK website.