

# Percos®



## MAPP 19700

A suspension concentrate containing 300 g/l ametoctradin, 225 g/l dimethomorph, 1,2-benzisothiazolin-3-one and 2-methyl-4-iso-thiazolin-3-one. A fungicide for use in potatoes.

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

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

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

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

TAKE OFF IMMEDIATELY all contaminated clothing.

WASH SPLASHES from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

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

#### Environmental protection

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

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 AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.

STORE IN ORIGINAL CONTAINER tightly closed, in a safe place.

On emptying the container, RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times.

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

**This label is compliant with the CPA Voluntary Initiative Guidance**

Supplied by:

BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport, SK1 3GG  
Telephone: 0161 475 3000

Emergency Information (24 hours freephone):  
0049 180 227 3112

Technical Enquiries: 0845 602 2553  
(office hours)

® = Registered trademark of BASF

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The  
Voluntary  
Initiative  
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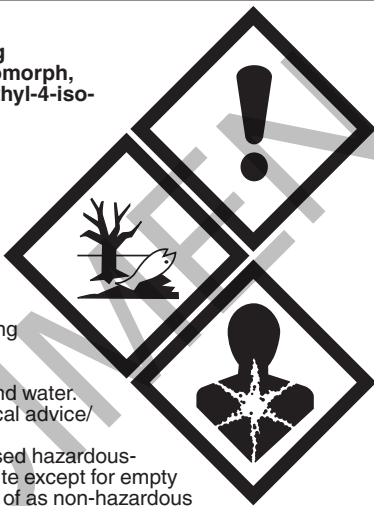
A suspension concentrate containing 300 g/l ametoctradin, 225 g/l dimethomorph, 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.

## Danger

**Harmful if swallowed.  
May cause an allergic skin reaction.  
May damage fertility.  
Very toxic to aquatic life with long lasting effects.**

If medical advice is needed, have product container or label at hand.  
Wear protective gloves, protective clothing and eye protection or face protection.  
Avoid breathing mist/vapours/spray.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
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.**



## IMPORTANT INFORMATION

**FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE, as directed below:**

Crop	Maximum Individual dose	Maximum total dose	Latest time of application
Potato	0.8 litres product per hectare	3.2 litres product per hectare	7 days before harvest

**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.**

## 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.

Percos is a fungicide with a combination of protectant, translaminar and locally systemic leaf activity for the control of foliar late blight (*Phytophthora infestans*) and the reduction of tuber blight in potatoes.

### Disease control

Percos will control foliar late blight on leaves and reduce the incidence of tuber blight when used as part of a full programme of correctly timed sprays.

### Disease susceptibility

Percos is most effective when applied as a protectant spray before the risk of blight occurs.

Percos will give effective protection against phenylamide resistant strains of late blight.

### Resistance Management

GROUP	40	45	FUNGICIDES
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Percos contains a mixture of ametoctradin (a triazolo-pyrimidylamine, QxI fungicide) and dimethomorph (a CAA fungicide).

To minimize the risk of resistance developing, and in line with current FRAG-UK advice to use effective doses, use Percos at the recommended rate (0.8 l/ha). No more than 3 consecutive applications of Percos, and no more than a total of 4 applications of Percos per season should be applied.

#### General advice:

Up to 6 applications of a CAA fungicide in mixture with a fungicide with a different mode of action, making up no more than half of the total number of intended late blight sprays per season, may be made.

No more than three consecutive applications of a CAA fungicide should be made.

Up to 6 applications of a QxI fungicide in mixture with a fungicide with a different mode of action, making up no more than half of the total number of intended late blight sprays per season, may be made.

No more than three consecutive applications of a QxI fungicide should be made.

Percos will control strains of late blight resistant to phenylamides. No cross resistance to phenylamide resistant strains of blight have been observed.

If an intensive blight control programme is necessary, include products with different modes of action. When fungicides with the same mode of action are used repeatedly over several years in the same field, naturally occurring less sensitive strains may

survive, propagate and become dominant in that field. It is therefore advised that wherever possible spray programmes should include fungicides with differing modes of action. Percos contains active substances with two different modes of action. For further advice on resistance management for potato blight (*Phytophthora infestans*) contact your agronomist or specialist advisor and/or visit the FRAG-UK and Potato Council websites.

## Crop Specific Information

Percos can be used on all varieties of potato, including seed crops.

### Time of application

#### Foliar blight

Percos should be applied as part of a repeat spray programme at 7–10 day intervals, depending on disease pressure. As disease pressure and the risk of late blight infection increases, the interval should be shortened. Irrigated crops should be treated as high risk.

Applications of Percos should begin as soon as there is a risk of blight infection, or an official blight warning has been issued. In the absence of any warnings, applications should commence before the crop meets along the rows.

#### Tuber blight

To reduce the incidence of tuber blight at harvest, Percos should be used at the recommended dose and spray intervals from tuber initiation to complete haulm dessication.

### Rate of application

0.8 l/ha.

## Mixing and Application

### Mixing

Half fill the sprayer tank with clean water and start the agitation.

Add the required amount of Percos.

Add the remainder of the water and continue agitation until spraying is completed.

Never prepare more spray solution than is required.

## **Application**

Apply as a medium spray, as defined by BCPC, in a water volume of 200 – 500 l/ha. Select the appropriate water volume for the density of the crop, ensuring good coverage of the foliage and stems.

Percos is rainfast in 1 hour, providing application has been made to dry foliage and the spray has dried on the leaf.

## **Tank cleaning**

Wash sprayer thoroughly immediately after use, using clean water and following the sprayer cleaning guidance provided by the equipment manufacturer.

## **The following does not form part of the authorised label text.**

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, 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 for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

## Section 6 of the Health and Safety at Work Act

### Additional Product Safety Information

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has “off-label” approval or is otherwise permitted under the Plant Protection Product Regulations (EC) No 1107/2009.

The information on this label is based on the best available information including data from test results.

### Great Britain Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



[agricentre.basf.co.uk/Percos/MSDS](http://agricentre.basf.co.uk/Percos/MSDS)

Alternatively, contact your supplier.

### Northern Ireland Safety Data Sheet

To access the Safety Data Sheet for this product scan the QR code or use the weblink below:



[agricentre.basf.co.uk/Percos-NI/MSDS](http://agricentre.basf.co.uk/Percos-NI/MSDS)

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