drawing **4942_E**

RUDIS®

1L e

Fungicide

A broad spectrum systemic fungicide with protectant and curative properties for use on cabbage, Brussels sprouts, cauliflower, broccoli/calabrese, carrot, parsnip, swede, turnip and leeks.

A suspension concentrate formulation containing 480 g/L (40 % w/w) prothioconazole.

For use only as agricultural fungicide.
For Professional use only.

Approval Holder:
Bayer CropScience Ltd.
230 Cambridge Science Park
Milton Road, Cambridge
CB4 0WB, United Kingdom

Marketing Company:
Bayer CropScience Ltd.
Bayer Ltd, The Atrium, Blackthorn Road
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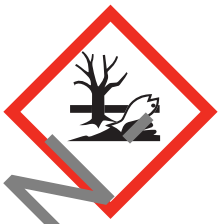
SHAKE WELL

Safety Information

RUDIS

Contains 480 g/L
(40 %) w/w prothioconazole



Warning

Very toxic to aquatic life with long lasting effects.

Dispose of contents/container to a licenced hazardous-waste disposal contractor or collection site except for empty clean/triple-rinsed containers which can be disposed of as non-hazardous waste.

Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione, 1,2-Benzisothiazolin-3-one and 5-Chloro-2-methylisothiazol-3-one/2-Methylisothiazol-3-one.
May produce an allergic reaction.

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

PCS No. 04665

SAFETY PRECAUTIONS

Operator Protection
Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate.
Wear suitable protective clothing (coveralls) when applying the product.
Wear suitable protective clothing (coveralls) and suitable protective gloves when handling contaminated surfaces.
If swallowed, seek medical advice immediately and show this container or label.
If you feel unwell, seek medical advice (show label where possible).
Wash hands and exposed skin before meals and after work.

Environmental Protection
Do not contaminate surface waters or ditches with chemical or used container.
Do not clean application equipment near surface water.
Avoid contamination via drains from farmyards and roads.
Use appropriate containment to avoid environmental contamination.
To protect aquatic organisms repect an unsprayed buffer zone of 5 m to surface water bodies.

Storage and Disposal
Keep away from food, drink and animal feedingstuffs.
Keep out of reach of children.
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 safely.
This material or container must be disposed of in a safe way.
Keep in original container tightly closed in a safe place.
Wash out container thoroughly, empty spray washings in to spray tank and dispose of safely.
Do not re-use container for any purpose.

To access the **Safety Data Sheet** for this product scan the code or use the link below:
www.bayercropscience.ie/sds/rudis.pdf
or alternatively contact your supplier
rudisiesds

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Bayer

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.
Rudis is recommended for control of a wide range of diseases on cabbage, Brussels sprouts, broccoli/ calabrese, cauliflower, carrot, swede, turnip and parsnip and leeks.

For best disease control and yield benefit Rudis should be applied at an early stage of disease development, before infection spreads to new crop growth.

RATE OF USE

Crops	Maximum individual dose	Maximum number of applications	Latest time of application
Cabbage (outdoor), Brussels sprouts (outdoor), cauliflower (outdoor), broccoli/ calabrese (outdoor)	0.4 L/ha	3 per crop	21 days before harvest
Leek (outdoor)	0.4 L/ha	3 per crop	21 days before harvest
Carrot (outdoor) – see "Restrictions" * below,	0.4 L/ha	3 per crop	21 days before harvest
Qualified Minor Uses:			
Parsnip (outdoor), swede (outdoor), turnip (outdoor)	0.4 L/ha	3 per crop	21 days before harvest

Restrictions:
Do not apply by hand-held equipment e.g. knapsack sprayer.
* Use only on carrot crops that will be mechanically harvested.

RESISTANCE MANAGEMENT

Rudis contains prothioconazole, a member of the DMI cross-resistance group. Use Rudis as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Do not spray more than 3 applications of Rudis per crop or per season.

DISEASES CONTROLLED

Cabbage, Brussels sprouts, broccoli/ calabrese, cauliflower	**Dark leaf spot** (*Alternaria brassicae* & *Alternaria brassicicola*), **ring spot** (*Mycosphaerella brassicicola*) and **powdery mildew** (*Erysiphe cruciferarum*) Also see qualified minor use recommendations below.
Leeks	**Leek rust** (*Puccinia allii*) and **purple blotch** (*Alternaria porri*) Also see qualified minor use recommendations below.
Carrots	**Leaf blight** (*Alternatia dauci*), ***Sclerotinia* rot**† (*Sclerotinia sclerotiorum*) **powdery mildew** (*Erysiphe heraclei*)
Parsnip, swede and turnip	See qualified minor use recommendations below.

† Moderate control

Qualified minor use recommendations:
Cabbage, Brussels sprouts, broccoli/calabrese, cauliflower
Based on limited data control of light leaf spot (*Pyrenopeziza brassicae*) and *Phoma* leaf spot (*Phoma lingam*) in **brassicas** would also be expected from applications of Rudis applied in accordance with the crop specific information section.

Leek
Based on limited data, useful reductions in *Cladosporium allii* (leaf blotch) and *Stemphylium botryosum* in **leeks** would also be expected from applications of Rudis applied in accordance with the crop specific information section.

Parsnip, swede and turnip
Based on limited data Rudis will control leaf blight (*Alternaria dauci*), *Sclerotinia* rot† (*Sclerotinia sclerotiorum*), powdery mildew (*Erysiphe heraclei*) in **parsnip** and powdery mildew (*Erysiphe cruciferarum*) and *Alternaria* (*Alternaria brassicae*) in **swedes** and **turnips**.

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

CROP SPECIFIC INFORMATION

Brussels sprouts, cabbage, broccoli/calabrese, cauliflower:

Rudis may be applied as a foliar spray at a maximum individual dose of 0.4 L product/ha in a water volume of 200 to 500 L/ha, using the higher volume in dense crops. The first application is recommended before disease establishes in the crop (making use of disease forecasting systems as appropriate). This should be followed by further doses at an interval of about 21 days.

As part of a disease resistance management strategy, Rudis should be used in a fungicide spray programme with other products based on different classes of chemistry. The maximum number of doses allowed per crops is 3. At least 21 days must be allowed between the final application and harvest.

For control of brassica leaf spot diseases (*Alternaria* species, *Mycosphaerella brassicicola*) or for curative activity against other target diseases, mixing with an approved sticker/wetter adjuvant may enhance the activity of Rudis.

If the crop is intended for processing consult the processor before use of Rudis.

Leeks

Rudis may be applied to leeks as a foliar spray at a maximum individual dose of 0.4 L product/ha in a water volume of 200 to 500 L/ha, using the higher volume in dense crops. The first application is recommended before disease establishes in the crop (making use of disease forecasting systems as appropriate). This should be followed by further doses at an interval of about 21 days.

As part of a disease resistance management strategy, Rudis should be used in a fungicide spray programme with other products based on different classes of chemistry. The maximum number of doses allowed per crop is 3. At least 21 days must be allowed between the final application and harvest.

For control of leek rust, mixing with an approved sticker/wetter adjuvant may enhance the activity of Rudis if in a curative situation or if the crop is very waxy.

Carrots

Rudis may be applied to carrots as a foliar spray at a maximum individual dose of 0.4 L product/ha in a water volume of 200 to 500 L/ha, using the higher volume in dense crops. The first application is recommended before disease establishes itself in the crop (making use of disease forecasting systems as appropriate). This should be followed by further doses at an interval of about 21 days. Typically the first application should be made prior to canopy closure in June/July; this is particularly important for control of *Sclerotinia sclerotiorum* to ensure that all leaves are adequately protected as the micro-climate under the crop becomes optimal for ascospore release from soil germinating apothecia. To reduce *Alternaria* infection on the leaves Rudis should be applied in early/mid August, or when first signs of disease appear on the foliage after the 5 true leaf stage of the crop (GS 15) if earlier than early/mid August.

As part of a disease resistance management strategy, Rudis should be used in a fungicide spray programme with other products based on different classes of chemistry. The maximum number of doses allowed per crops is 3. At least 21 days must be allowed between the final application and harvest.

If the crop is intended for processing consult the processor before use of Rudis.

MINOR USE QUALIFICATION

There is limited evidence of crop safety and/or product efficacy available for qualified minor uses and the commercial risk of using this product under this/these Qualified Minor Use(s) is borne entirely by the grower.

Parsnips, swedes and turnips:

Use on parsnip, swede and turnip are Qualified Minor Use Recommendations.

Rudis may be applied to, parsnips, swedes or turnips as a foliar spray at a maximum individual dose of 0.4 L product/ha in a water volume of 200 to 500 L/ha, using the higher volume in dense crops. The first application is recommended before disease establishes itself in the crop (making use of disease forecasting systems as appropriate). This should be followed by further doses at an interval of about 21 days. Typically the first application should be made prior to canopy closure in June/July; this is particularly important for control of *Sclerotinia sclerotiorum* to ensure that all leaves are adequately protected as the micro-climate under the crop becomes optimal for ascospore release from soil germinating apothecia. To reduce *Alternaria* infection on the leaves Rudis should be applied in early/mid August, or when first signs of disease appear on the foliage after the 5 true leaf stage of the crop (GS 15) if earlier than early/mid August.

For control of leaf spot diseases (*Alternaria* species) on swede and turnip or for curative activity against other target diseases on these crops, mixing with an approved sticker/wetter adjuvant may enhance the activity of Rudis.

As part of a disease resistance management strategy, Rudis should be used in a fungicide spray programme with other products based on different classes of chemistry. The maximum number of doses allowed per crops is 3. At least 21 days must be allowed between the final application and harvest.

If the crop is intended for processing consult the processor before use of Rudis.

MIXING AND APPLICATION

Shake well before use. Add the required quantity of Rudis 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.

Ensure spray equipment is clean before use, and filters and jets are checked for damage and blockages. Spray equipment should be thoroughly cleaned with detergent after use.

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

Boom height and water volume should be adjusted to ensure good coverage of the crop, particularly at later growth stages. In dense crops at later growth stages, higher water volumes should be used as recommended.

For use in tractor mounted/trailed sprayers.