



Reflect™

syngenta®

Product registration number: MAPP 17228; PCS No. 05462

REFLECT is an emulsifiable concentrate containing 125 g/l (13.1% w/w) isoprazam.

Controls Powdery Mildew (*Erysiphe heraclei*) and moderate control of Alternaria Leaf Blight (*Alternaria dauci*) in carrots; Powdery Mildew (*Leveillula taurica*, *Oidium lycopersici*) in protected tomato, aubergine, pepper and chilli; Powdery Mildew (*Erysiphe cichoracearum*, *Sphaerotheca fuliginea*) in protected cucumber, courgette, summer squash and melon.



FOR PROFESSIONAL USE ONLY

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

Warning

Harmful if swallowed.

Causes serious eye irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects.

Keep out of reach of children.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

If exposed or concerned: Get medical advice/ attention.

Call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse mouth.

If eye irritation persists get medical advice/attention.

Collect spillage.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

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

Contains isoprazam. May produce allergic reaction.



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In case of toxic or transport emergency ring

+44 (0)1484 538444 any time.

SHAKE WELL BEFORE USE.

PROTECT FROM FROST

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



SAFETY PRECAUTIONS

(a) Operator protection (COSHH applies to the UK only)

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) 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.

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

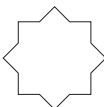
WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection (LERAP scheme applies to the UK only)

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



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

This product qualifies for inclusion within the Local Environmental 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.

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.

(c) Storage and disposal

KEEP AWAY FROM FOOD, DRINK OR ANIMAL FEEDING STUFFS.

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.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL FUNGICIDE

Crop	Maximum Individual Dose	Maximum number of applications	Latest time of application
Carrot	1 litre product/ha	2 per crop (See 'Other Specific Restriction' 1)	14 days before harvest
Aubergine (protected), courgette and summer squash (protected), cucumber (protected), tomato (protected)	0.1 litres product /100 litres	2 per crop (See 'Other Specific Restriction' 2)	1 day before harvest
Pepper (protected), chilli (protected)	0.1 litres product /100 litres	2 per crop (See 'Other Specific Restriction' 2)	3 days before harvest
Melon (protected)	0.1 litres product /100 litres	2 per crop (See 'Other Specific Restriction' 2)	7 days before harvest

Other Specific Restrictions:

1. A minimum interval of 14 days must be observed between applications to carrots.
2. A minimum interval of 7 days must be observed between applications to protected crops.

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

Isopyrazam is an orthosubstituted pyrazole carboxamide fungicide belonging to the sub-class of the benzonorbornenes. REFLECT is predominantly protectant but has significant biochemical potency and can deliver disease control away from the point of application.

Isopyrazam is an SDH inhibitor (FRAC group #7 carboxamides). No cross resistance to any compound of a different fungicide class is expected.

REFLECT can be used on all varieties of carrots, aubergines, courgettes, summer squash, cucumber, tomato, pepper, chilli and melon.

REFLECT shows good crop safety and disease control which results in significant yield benefits.

REFLECT is best used as a protectant treatment or in the earliest stages of disease development.

DISEASES CONTROLLED

Carrots

Powdery Mildew (*Erysiphe heraclei*)

Alternaria Leaf Blight (*Alternaria dauci*) : MODERATE CONTROL

Protected tomato, aubergine, pepper, chilli

Powdery Mildew (*Leveillula taurica*, *Oidium lycopersici*)

Protected cucumber, courgette, summer squash and melon (including water melon)

Powdery Mildew (*Erysiphe cichoracearum*, *Sphaerotheca fuliginea*)

RESISTANCE MANAGEMENT

Use REFLECT 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. Follow the FRAC guidelines for application of SDH inhibitors in vegetables. The current guidelines are as follows:

- When mixtures are used for SDHI fungicide resistance management, applied as tank mix or as a co-formulated mixture, the mixture partner:
 - Should provide satisfactory disease control when used alone on the target disease
 - Must have a different mode of action.

The following spray table should be used as a guideline irrespective of the targeted disease in the crops specified above.

Total number of spray applications per crop	1	2	3	4	5	6	7	8	9	10	11	12	>12
Maximum recommended solo SDHI fungicides sprays (apply in strict alternation)	1	1	1	1	2	2	2	3	3	3	3	4	*
Maximum recommended solo SDHI fungicides sprays in mixture (apply a maximum of 2 consecutive applications)	1	1	1	2	2	3	3	3	3	3	4	4	*

*When more than 12 fungicide applications are made, observe the following guidelines:

- When using a SDHI fungicide as a solo product, the number of applications should be no more than 1/3 (33%) of the total number of fungicide applications per season.

- For programs in which tank mixes or pre-mixes of SDHI are utilised, the number of SDHI containing applications should be no more than ½ (50%) of the total number of fungicide applications per season.
- In programs where SDHIs are made with both solo products and mixtures, the number of SDHI containing applications should be no more than ½ (50%) of the total number of fungicides applied per season.

Disease control may be reduced if strains of pathogens less sensitive to REFLECT develop.

CROP SPECIFIC INFORMATION

Restrictions

Do not use on crops intended for seed production

Crops and growing conditions

Apply REFLECT under good growing conditions with adequate soil moisture. Avoid poor growing conditions which may give less reliable results.

Always inspect crops to assess disease development immediately before spraying. Best results will be achieved from applications made as a protectant treatment or in the earliest stages of disease development following a disease risk assessment or the use of appropriate decision support systems.

CARROTS

Rates of use

Apply REFLECT at 1.0 litres product per hectare

Timing

For optimum results apply REFLECT at the first signs of disease, from 4th true leaf unfolded onwards (BBCH 14). A further application may be required if disease pressure remains high. Allow a minimum of 14 days between applications.

Processing

Where a crop is destined for processing, consult your processor before treating with REFLECT.

PROTECTED CROPS

Rates of use

Apply REFLECT at 0.1 litres product per 100 litres.

Timing

For optimum results apply REFLECT at the first signs of disease, from BBCH 51 (first flower). A further application may be required if disease pressure remains high. Allow a minimum of 7 days between applications.

Processing

Where a crop is destined for processing, consult your processor before treating with REFLECT.

FOLLOWING CROPS

There are no restrictions on succeeding crops in a normal rotation.

MIXING AND SPRAYING

Mixing Procedure

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of water and begin agitation. Add the required amount of REFLECT to the spray tank. Add the rest of the water and continue to agitate the mixture thoroughly. Always agitate during spraying.

Spray Volume

Carrots

Apply REFLECT in a recommended 200 – 600 litres of water per hectare through conventional crop spraying equipment.

Protected crops

Apply REFLECT in a recommended 300 - 1000 litres of water per hectare through hand-held crop spraying equipment or hydraulic nozzle applicator e.g. motorised sprayer with hand lance or boom lance.

Rainfastness

REFLECT is rainfast in 2 hours.

After Spraying

Thoroughly wash out sprayer according to manufacturer's guidelines and dispose of washing and clean containers according to DEFRA Code of Practice and local water authority guidelines.