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BASF
We create chemistry

Charm®

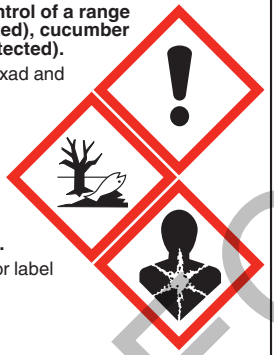
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An agricultural/horticultural fungicide for the control of a range of diseases in strawberries (outdoor and protected), cucumber (protected), tomato (protected) and pepper (protected).

A suspension concentrate containing 75 g/l fluxapyroxad and 50 g/l difenoconazole

Safety Information

Warning



May cause an allergic skin reaction.
Causes serious eye irritation.
May cause harm to breast-fed children.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

If medical advice is needed, have product container or label at hand.
Wear protective gloves/clothing/eye protection.
Do not breathe dust/fume/gas/mist/vapours/spray.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Contains 1-2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

PCS No. 06475
MAPP 18396

UFI: XH02-N083-D00G-DCKX

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

Authorisation holder and UK marketing company:
BASF plc, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport, SK1 3GG Tel: 0161 475 3000
Irish marketing company:
BASF Ireland DAC, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport, SK1 3GG Tel: 00 44 (0) 161 475 3000
Emergency Information (24 hours freephone): 0049 180 227 3112,
Technical Enquiries: 0044 (0)845 602 2553 (office hours)

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Charm®

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE, as directed below:			
Crops	**Maximum Individual Dose**	**Maximum Number of Applications per crop**	**Pre-harvest Interval**
Strawberry (outdoor and protected)	0.6 l/ha	3	1 day
Cucumber (protected)	0.6 l/ha	3	3 days
Tomato, Pepper (protected)	1 l/ha	2	3 days
Other Specific Restriction Do NOT use in protected tomato and pepper crops between 1st October and 1st March.			
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 PROTECTON PRODUCTS.			

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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) 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 (UK only).
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection
Do not contaminate water with the product or its container.
Do not clean application equipment near surfacewater.
Avoid contamination via drains from farmyards and roads.
Ireland only: To protect aquatic organisms respect a 5m unsprayed buffer zone to surface water.
UK only: 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 5m of the top of the bank of a static or flowing waterbody, unless a Local Environment 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.
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 inspection for three years.

LERAP B

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 other 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.
For professional use only.

The Voluntary Initiative

This label is compliant with the CPA Voluntary Initiative Guidance (UK only).

RINSE CONTAINERS

® = Registered trademark of BASF

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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.

Restrictions/Warnings

Do not use Charm on crops intended for fermentation.

Do not use on protected crops intended for production of seed or propagation material.

Charm may result in leaf damage in some protected crops. The damage may be seen as leaf necrosis or twisting/curling of the leaf edges and usually affects less than 10% of the leaf area. Damage may be more likely to occur in low light conditions during the period between 1st October and 1st March.

Consider delaying applications of Charm until light levels increase and consider testing Charm on a small area of the crop before wide-scale use.

Avoid overlapping sprays.

Do NOT use in protected tomato and pepper crops between 1st October and 1st March.

For professional use only.

Disease control

Charm is a protectant fungicide for the control of a range of diseases in strawberries (outdoor and protected), cucumber (protected), tomato (protected) and pepper (protected). See summary below:

	Strawberry (outdoor and protected)	Cucumber (protected)	Tomato (protetced)	Pepper (protected)
Alternaria spp.			MC	QR
Powdery mildew (*Erysiphe cichoracearum* and *Sphaerotheca fuliginea*)		MC		
Gummy stem blight (*Mycosphaerella melonis*)		C		
Powdery mildew (*Leveillula taurica*)			C	C
Powdery mildew (*Sphaerotheca macularis*)	C			

C = Control
MC = Moderate control
QR = Qualified recommendation

Resistance Management

GROUP	3	7	FUNGICIDES

Charm contains the SDHI fungicide, fluxapyroxad (FRAC Code 7) and the triazole (SBI) fungicide, difenoconazole (FRAC Code 3). Charm should be used in accordance with FRAC advice for SDHI's and SBIs.

Effective disease management is a critical component in delaying the build-up of resistant pathogen populations. Therefore, Charm should be applied according to the manufacturer's recommended dose rate and spray interval for the target crop and disease.

Charm should be used preventatively or at the early stages of disease development, following warnings from Decision Support Systems where these are available.

The maximum permitted number of applications of Charm should not be exceeded.

Protected tomato and protected pepper: A maximum of two applications of Charm are permitted per crop.

Outdoor and protected strawberries and protected cucumbers: A maximum of three applications of Charm are permitted per crop.

The total number of applications of Charm and other SDHI containing products should make up no more than half (50%) of the total number of fungicides applied per season.

No more than two consecutive applications of Charm or another SHDI fungicide should be applied.

For further advice on resistance management contact your agronomist or specialist advisor or visit the FRAG-UK website.

Crop Specific Information

Strawberries (outdoor and protected)

Target(s):
Powdery mildew

Time of application:
Apply Charm as a protectant spray or at the first sign of disease, from when the first flowers open. Up to three applications can be made, but a minimum spray interval of 7 days should be observed.

A minimum of one day must elapse between the last spray and harvest.

Dose rate:
0.6 l/ha

Water volume:
200-200 0 l/ha

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Cucumber (protected)

Target(s): Powdery mildew and gummy stem blight
Time of application: Apply Charm as a protectant spray or at the first sign of disease, from when the first flowers open. Up to three applications can be made, but a minimum spray interval of 7 days should be observed. A minimum of 3 days must elapse between the last spray and harvest.
Dose rate: 0.6 l/ha
Water volume: 200-1500 l/ha

Tomato and pepper (protected)

Target(s): Powdery mildew and *Alternaria*
Time of application: Apply Charm as a protectant spray or at the first sign of disease, from when the first flower bud is visible. DO NOT use between 1st October and 1st March. Two applications can be made, but a minimum spray interval of 7 days should be observed. A minimum of 3 days must elapse between the last spray and harvest.
Dose rate: 0.6-1.0 l/ha For the control of powdery mildew, apply Charm at a rate of 0.6 l/ha. For the moderate control of *Alternaria*, apply Charm at a rate of 1.0 l/ha.
Water volume: 400-1500 l/ha

Mixing and Application

Mixing

Never prepare more spray solution than is required.
Three quarters 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 of Charm to the spray tank while re-circulating. Add the remainder of the water and continue agitation until spraying is complete.
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).
All tank mixes should be used immediately after mixing.
On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or by manually rinsing three times. Add washings to tank at time of filling and dispose of container safely.

Application

Apply as a MEDIUM spray, as defined by BCPC.

Sprayer cleaning

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

Compatibility

For details of compatibilities contact your distributor, local BASF representative, the BASF Technical Services Hotline: 00 44 (0)845 602 2553 or visit our website on: www.agriCentre.basf.co.uk (UK) or www.agriCentre.basf.ie (Ireland)

Company Advisory Information

Chilli peppers:
Use of Charm on Chilli peppers (protected) is allowed according to the authorised use for Pepper (protected). The phytotoxicity of the product on Chilli peppers has not been assessed and, as such, the user bears the risk in respect of failures concerning this use.

The following does not form part of the product label under Irish S.I. No. 159 of 2012 or under the Plant Protection Product Regulations 1107/2009

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

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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 any applicable law.

Additional Product Safety Information

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/Charm/MSDS

Alternatively, contact your supplier.

Ireland Safety Data Sheet

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

agricentre.basf.ie/Charm-IE/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/Charm-NI/MSDS

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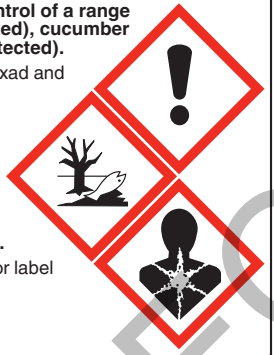
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Other Specific Restriction
Do NOT use in protected tomato and pepper crops between 1st October and 1st March.

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Operator Protection
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.
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However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection (UK only).
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection
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Do not clean application equipment near surfacewater.
Avoid contamination via drains from farmyards and roads.
Ireland only: To protect aquatic organisms respect a 5m unsprayed buffer zone to surface water.
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LERAP B

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 other 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.
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The Voluntary Initiative

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