

# 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).

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

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

**Warning:**

**Suspected of causing cancer.**  
**Causes serious eye irritation.**

**Very toxic to aquatic life with long lasting effects.**

Obtain special instructions before use.

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

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.

Store locked up.

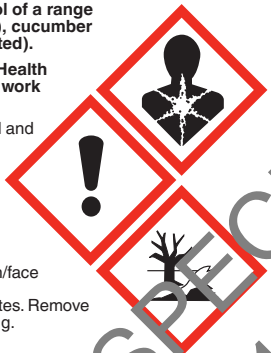
Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple-rinsed containers which can be disposed of as non-hazardous waste.

Contains 2-methylisothiazol-3(2H)-one and 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.**

MAPP No: 18396

PCS No: 06475



Authorisation holder and UK Marketing Company:  
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Irish Marketing Company:  
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Emergency Information (24 hours freephone): 0049 180 227 3112,  
Technical Enquiries: 0044 (0)845 602 2553 (office hours)

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**IMPORTANT INFORMATION**

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 1<sup>st</sup> October and 1<sup>st</sup> 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 PROTECTION 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 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 surface water.

Avoid contamination via drains from farmyards and roads

**Land 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.

**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.

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

**This product is approved under the Plant Protection Products Regulation 1107/2009.**



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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 1<sup>st</sup> October and 1<sup>st</sup> 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.

For professional use only.

Do NOT use in protected tomato and pepper crops between 1<sup>st</sup> October and 1<sup>st</sup> March.

## 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 (protected)	Pepper (protected)
<i>Alternaria</i> spp.			MC	QR
Powdery mildew ( <i>Erysiphe cichoracearum</i> and <i>Sphaerotheca fuliginea</i> )		MC		
Gummy stem blight ( <i>Mycosphaerella melonis</i> )		C		
Powdery mildew ( <i>Levellula taurica</i> )			C	C
Powdery mildew ( <i>Sphaerotheca macularis</i> )	C			

C = Control

MC = Moderate Control

QR = Qualified Recommendation

## Resistance Management

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 SDHI fungicide should be applied. For further advice on resistance management contact your agronomist or specialist advisor or visit the [RAG-UK website](http://RAG-UK website).

## Crop Specific Information

### Strawberries (outdoor and protected)

<b>Target(s):</b> Powdery mildew
<b>Title of application:</b> 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.
<b>Dose rate:</b> 0.6 l/ha
<b>Water volume:</b> 200 – 2000 l/ha

## 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 1<sup>st</sup> October and 1<sup>st</sup> 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 BCPG.

## Tank 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: 0845 602 2553 or visit our website on: [www.agricentre.co.uk](http://www.agricentre.co.uk)

## 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 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 (UK only)

### Additional Product Safety Information (UK only).

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 Products Regulations.

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

### UK Safety Data Sheet

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



[bit.ly/Charm\\_sds](https://bit.ly/Charm_sds)

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:



[bit.ly/Charm\\_sds](https://bit.ly/Charm_sds)

Alternatively, contact your supplier.

SPECIMEN -  
2019 to date