

Kumulus® DF

MAPP 19420

A water dispersible granule containing 80% w/w sulphur for the control of powdery mildew in strawberries, gooseberries, grapevines and sugar beet and for the control of gall mite (big bud) in blackcurrant and redcurrant.

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

SAFETY PRECAUTIONS

Operator protection

DO NOT BREATHE SPRAY.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH HANDS before meals and after work.

Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.
Do not clean equipment near surface water.
Avoid contamination via drains from farmyards and roads.
RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS. See Directions for Use.

Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
EMPTY CONTAINER COMPLETELY and dispose of safely.
Keep dry and cool in a suitable pesticide store.

This label is compliant with the CPA Voluntary Initiative Guidance



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A water dispersible granule containing 80% w/w sulphur

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

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

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL FUNGICIDE AND AS A HORTICULTURAL ACARICIDE, as directed below:

Crops/situations:	Maximum individual dose: (kg product / ha)	Maximum total dose:	Maximum number of treatments:	Latest time of application:
Blackcurrant and redcurrant (outdoor)	See 'Other specific restrictions' 1	-	3 per year	Beginning of ripening [before BBCH 85]
Table grapes (outdoor), wine grapes (outdoor)	8	-	10 per year	Before berries developing colour [before BBCH 83]
Gooseberry (outdoor)	See 'Other specific restrictions' 2	-	3 per year	Beginning of ripening [before BBCH 85]
Strawberry	Outdoor and protected crops, see 'Other specific restriction' 1	-	6 per year	Before first flowers open [before BBCH 60]
Sugar beet	10	-	2 per crop	Before September in the year of harvest.

Other Specific Restrictions

(1) When used on blackcurrant, redcurrant and strawberry, the maximum concentration must not exceed 200 g of product per 100 litre water.

(2) When used on gooseberry, the maximum concentration must not exceed 250 g of product per 100 litre water.

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.

20 kg

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)**

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.

Kumulus DF is a protectant fungicide for the control of powdery mildew in strawberries, gooseberries, grapevines and sugar beet and for the control of gall mite (big bud) in blackcurrants and redcurrants

Restrictions/Warnings

Avoid spraying within 5m of the field boundary to reduce effects on non-target insects or other arthropods.

Use the best available technique which minimises off-target drift to reduce effects on non-target insects or other arthropods.

Processed crops: Do not apply Kumulus DF to fruit for processing, or near to harvest on grapes intended for wine.

Some fruit varieties are sensitive to sulphur and may show adverse effects following treatment with Kumulus DF. These include the gooseberry varieties Careless and Leveller. If unsure of varietal sensitivity, treat a small number of trees/bushes before wide-scale use of this product.

It is advisable not to apply Kumulus DF under conditions of strong sunlight or high temperature, as scorch may result. Avoid spray drift on to neighbouring crops.

Do not apply Kumulus DF if rain or frost is expected, nor if the crop is wet.

Wash equipment thoroughly after use.

Disease control

Kumulus DF is a protectant fungicide for the control of powdery mildew in strawberries, gooseberries, grapevines and sugar beet and for the control of gall mite (big bud) in blackcurrants and redcurrants.

Resistance Management

GROUP	M02	FUNGICIDE
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Maintain the label dose rate.

Application for preventative control and within the maximum specified number of applications per season.

Use as part of a spray program in sequence and tank mixtures with other fungicides with different modes of action.

Crop Specific Information

Sugar beet: Powdery mildew

Time of Application

Apply Kumulus DF when the disease begins to build up in the crop, usually from mid August to early September. A second application may prove to be necessary after 2–3 weeks.

Rate of Application

Apply 10 kg Kumulus DF in a minimum of 250 litres of water per hectare.

Grapevine: Powdery mildew

Time of Application

Apply Kumulus DF as soon as the disease appears and repeat at 10–14 day intervals up until the beginning of ripening (BBCH 81).

Rate of Application

Low disease pressure:

Apply 3 kg Kumulus DF per hectare in 300–1600 litres of water.

Moderate disease pressure:

Apply 5 kg Kumulus DF per hectare in 300–1600 litres of water.

High disease pressure:

Apply 8 kg Kumulus DF per hectare in 300–1600 litres of water.

Blackcurrant and Redcurrant: Gall mite (big bud)

Time of Application

Apply Kumulus DF at first open blossom and repeat at 14 day intervals to give a total of three applications, up until the beginning of ripening (BBCH 83).

Rate of Application

Apply 200 g Kumulus DF per 100 litres of water high volume, up to a maximum of 2200 litres of water per ha ensuring good spray cover. The addition of an authorised non-ionic wetting agent at the recommended rate is recommended for good spray retention.

Gooseberry: American gooseberry mildew (powdery mildew)

Time of Application

Apply Kumulus DF at early flower, fruit set and fruit swell, thoroughly wetting the bushes.

Do not apply to the following sulphur sensitive varieties: Careless, Early Sulphur, Golden Drop, Leveller, Lord Derby, Roaring Lion and Yellow Rough

Rate of Application

Apply 250 g Kumulus DF per 100 litres of water high volume, up to a maximum of 5 kg product in 2000 litres of water per ha.

Outdoor and protected strawberry: Powdery mildew

Time of Application

Apply Kumulus DF as soon as the disease appears and repeat at 10–14 day intervals until before first flowers open.

When using on protected strawberries you are advised to test this product on a few plants before treating the whole crop as the risk of crop damage is unknown.

Rate of Application

Apply 200 g Kumulus DF per 100 litres of water high volume, up to a maximum of 2 kg product in 1000 litres of water per ha.

Mixing and Application

Mixing

For water volumes, see Crop Specific Information, above.

Remove the top filter. Fill the spray tank to the required volume with clean water and start the agitation. Then slowly add the required amount of Kumulus DF. Replace the filter, leave to disperse and continue agitation until spraying is completed. start the agitation. Then slowly add the required amount of Kumulus DF. Replace the filter, leave to disperse and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be pre-diluted with water and added separately to the spray tank.

Application

Apply as a **MEDIUM** spray, as defined by BCPC.

The following uses do not fall within the scope of the Plant Protection Products Regulation (EC) 1107/ 2009

Winter oilseed rape: Sulphur foliar feed

Time of Application

In areas of known sulphur deficiency or where a response has been recorded previously, apply Kumulus DF in March, as the crop begins to re-grow after the winter dormancy period.

Rate of Application

Apply 10 kg Kumulus DF in 220–450 litres of water per hectare.

Wheat and barley: Sulphur foliar feed

Time of Application

In areas of known sulphur deficiency or where a response has been recorded previously, apply Kumulus DF in the spring from leaf sheath lengthening to first node detectable.

Rate of Application

Apply 10 kg Kumulus DF in 220–450 litres of water per hectare

Compatibility

For details of compatibilities contact your distributor, local BASF representative or the BASF Technical Services Hotline: 0845 602 2553 or visit our website on: www.agricentre.basf.co.uk.

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 Products Regulations.

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

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/Kumulus-DF/MSDS

Alternatively, contact your supplier.

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Batch:

Prod date:



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