

Kumulus[®] DF

MAFF 04707

A water dispersible granule containing 80% w/w sulphur for the control of powdery mildew in apples, gooseberries, grapevines, hops, strawberries and sugar beet and for the control of scab in apples and gall mite (big bud) in blackcurrants. Also for use as a sulphur foliar feed in wheat, barley and winter oilseed rape.

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

SAFETY PRECAUTIONS

Operator protection

WASH HANDS before meals and after work.

Environmental protection

Do not contaminate surface waters or ditches with chemical or used container.

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.

Kumulus DF

A water dispersible granule containing 80% w/w sulphur.

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

This product is approved under the Control Of Pesticide Regulations 1986.

IMPORTANT INFORMATION

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

Crops	Maximum Concentration or Dose	Maximum Number of Treatments	Latest Time of Application
Apples	600 g product in 100 litres water (HV) or 11 kg product per hectare (LV)	–	–
Blackcurrants	200 g product in 100 litres water	3 per year	–
Grapevines	250 g product in 100 litres water	–	–
Gooseberries	250 g product in 100 litres water	3 per year	Up to and including fruit swell
Hops	600 g product in 100 litres water (HV) or 11 kg product per hectare (LV)	–	Up to burr stage
Strawberries	200 g product in 100 litres water	–	–
Sugar beet	10 kg product per hectare	2 per year	Before end of September in year of harvest

* A minimum interval of 10 days must be observed between treatments to hops, grapevines and strawberries.

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

This label is compliant with the CPA
Voluntary Initiative Guidance



Supplied by:
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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.

Kumulus DF is a fungicide for the control of powdery mildew in apples, gooseberries, grapevines, hops, strawberries and sugar beet and for the control of scab in apples and gall mite (big bud) in blackcurrants. Also for use as a sulphur foliar feed in wheat, barley and winter oilseed rape.

1. Restrictions/Warnings

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

Do not apply Kumulus DF to the following varieties of gooseberries: Careless; Early Sulphur; Golden Drop; Leveller; Lord Derby; Roaring Lion; Yellow Rough.

Do not apply Kumulus DF to the following varieties of apples: Belle de Boskoop; Lord Derby; Newton Wonder (some districts); Stirling Castle; Lane's Prince Albert; Cox's Orange Pippin; Beauty of Bath; Rival.

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.

2. Disease Control

Kumulus DF is a fungicide for the control of powdery mildew in apples, gooseberries, grapevines, hops, strawberries and sugar beet and for the control of scab in apples and gall mite (big bud) in blackcurrants. Also for use as a sulphur foliar feed in wheat, barley and winter oilseed rape.

3. Crops

3.1 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 450 litres of water per hectare.

3.2 Hops: Powdery mildew

Time of Application

Apply Kumulus DF at 10 day intervals from May up to the burr stage.

Rate of Application

Apply 400–600 g Kumulus DF per 100 litres of water high volume or 8–11 kg Kumulus DF in 350–550 litres of water per hectare.

3.3 Grapevine: Powdery mildew

Time of Application

Apply Kumulus DF as soon as the disease appears and repeat at 10–14 day intervals.

Rate of Application

Apply 250 g Kumulus DF per 100 litres of water high volume.

3.4 Apple: Scab and powdery mildew

Time of Application

Apply Kumulus DF at 10–14 day intervals, (a) from bud burst to green cluster for scab control and (b) post blossom for scab and mildew control.

Rate of Application

Apply 600 g Kumulus DF per 100 litres of water high volume or 11 kg in 550–750 litres of water per hectare at the earlier timing, followed by 400 g Kumulus DF per 100 litres of water high volume or 11 kg in 550–750 litres of water per hectare post blossom.

Varietal Tolerances

Do not apply Kumulus DF to the following varieties: Belle de Boskoop; Lord Derby; Newton Wonder (some districts); Stirling Castle; Lane's Prince Albert; Cox's Orange Pippin; Beauty of Bath; Rival.

3.5 Blackcurrant: 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.

Rate of Application

Apply 200 g Kumulus DF per 100 litres of water high volume. The addition of an authorised non-ionic wetting agent at the recommended rate, is recommended for good spray retention. High volumes of 2200 litres per hectare is also recommended to give adequate spray cover.

3.6 Gooseberry: American gooseberry mildew (powdery mildew)

Time of Application

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

Rate of Application

Apply 250 g Kumulus DF per 100 litres of water high volume.

Varietal Tolerances

Do not apply Kumulus DF to the following varieties: Careless; Early Sulphur; Golden Drop; Leveller; Lord Derby; Roaring Lion; Yellow Rough.

3.7 Strawberry: Powdery mildew

Time of Application

Apply Kumulus DF as soon as the disease appears and repeat at 10–14 day intervals.

Rate of Application

Apply 200 g Kumulus DF per 100 litres of water high volume.

3.8 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.

3.9 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.

4. Mixing and Spraying

Apply as a MEDIUM spray, as defined by BCPC.

For water volumes, see Section 3, 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.

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

Kumulus DF may be applied from the air to wheat, barley and oilseed rape at the recommended rate in 25–60 litres of water per hectare. Aerial applications should not be made in tank mix with any other products.

The following does not form part of the product label under the Control of Pesticides Regulations 1986.

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 Control of Pesticides 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:



http://www.agricentre.basf.co.uk/go/Kumulus_DF_sds

Alternatively, contact your supplier.

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1. Batch no.:
2. Date of Production:



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