

KARAMATE* DRY FLO NEOTEC

FUNGICIDE

Product Registration Number: MAPP 14632.

A water dispersible granule containing 75% w/w mancozeb.

A protectant fungicide for the control of SCAB, DOWNY MILDEWS and a range of OTHER DISEASES of FRUIT and VEGETABLE CROPS.

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

PROTECT FROM FROST.

Pack size: 10 and 25 kg

Approval holder:

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This label is compliant with the CPA Voluntary Initiative Guidance.



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 SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT (FFP 3)* when handling the product.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

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.

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

DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 40 metres 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 5 metres of the top of a ditch which is dry at the time of application. Aim spray away from water.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 metre 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 1 metre of the top of the bank of a static or flowing water body. 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 HSE'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.

Storage and disposal:

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

*Disposable filtering facepiece respirator to at least EN 149 FFP2 or equivalent.





HARMFUL



**DANGEROUS FOR
THE ENVIRONMENT**

**POSSIBLE RISK OF HARM TO THE UNBORN CHILD
MAY CAUSE SENSITISATION BY SKIN CONTACT
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE
EFFECTS IN THE AQUATIC ENVIRONMENT.**

WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL
CONTAMINATION.

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

IMPORTANT INFORMATION.			
FOR USE ONLY AS A HORTICULTURAL FUNGICIDE			
Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Apple, pear,	2.0 kg product per hectare (See Other Specific Restrictions 1)	4 per crop (See Other Specific Restrictions 1)	28 days before harvest
Wine grapes	0.2 kg product in 100 litres of water (See Other Specific Restrictions 2)	4 per crop (See Other Specific Restrictions 2)	56 days before harvest
Bulb onion (outdoor), shallot (outdoor)	2.5 kg product per hectare (See Other Specific Restrictions 3)	4 per crop (See Other Specific Restrictions 3)	28 days before harvest
Carrot (outdoor), parsnip (outdoor)	2.0 kg product per hectare (See Other Specific Restrictions 4)	4 per crop (See Other Specific Restrictions 4)	30 days before harvest
Courgette (outdoor)	2.0 kg product per hectare (See Other Specific Restrictions 5)	4 per crop (See Other Specific Restrictions 5)	3 days before harvest
Amenity vegetation, ornamental plant production, ornamental plant production (post harvest use), ornamental plant production (propagating material)	2.0 kg product per hectare	4 per crop (See Other Specific Restrictions 6)	-
Other Specific Restrictions:			
(1) For apples and pears the spray concentration must not exceed 0.25 kg product per 100 L of water. The rate of product applied must not exceed 2.0 kg product per hectare irrespective of the water volume being used. The following minimum intervals between applications must be observed: 10 days when applied in tank mixture or, when applied alone or in tank mixture in a weekly spray programme with other complementary fungicides a 14 day interval must be observed.			
(2) For grape the spray concentration must not exceed 0.2 kg product per 100 L of water. The rate of product applied must not exceed 2.0 kg product per hectare irrespective of the water volume being used. A minimum interval of 10 days between applications must be observed.			
(3) For outdoor crops of bulb onion the rate of product applied must not exceed 2.5 kg product per hectare irrespective of the water volume being used. A minimum interval of 7 days must be observed between applications.			
(4) For outdoor crops of carrot and parsnip the rate of product applied must not exceed 2.0 kg product per hectare irrespective of the water volume being used. A minimum interval of 14 days must be observed between applications.			
(5) For outdoor crops of courgette the rate of product applied must not exceed 2.0 kg product per hectare irrespective of the water volume being used. A minimum interval of 7 days must be observed between applications.			
(6) A minimum interval of 7 days between applications must be observed.			
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.			

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.

GENERAL INFORMATION

KARAMATE* DRY FLO NEOTEC is a preventative fungicide. The first application should be made just before disease is expected to appear, with repeat applications at the recommended intervals in programme with other fungicides.

NOTES

Avoid spray overlap or excessive application.

The best available application technique, which minimises off-target drift, should be used to reduce potential effects on non-target insects or other arthropods.

Allow foliage to dry before applying KARAMATE DRY FLO NEOTEC after rainfall or irrigation.

Do not apply KARAMATE DRY FLO NEOTEC if rain is expected within four hours of application.

It is important to keep containers tightly closed and stored in a cool, dry place.

Keep away from fire and sparks.

Once the container has been opened the material should not be kept over from one season to the next.

RESISTANCE

Downy mildew of vines and other crops are considered to be diseases with a high or medium risk of developing resistance to fungicides. KARAMATE DRY FLO NEOTEC is a multi-site contact fungicide and because of this the risk of resistance development is reduced, however it is in your interest and best practice to plan a programme of treatments using fungicides with different modes of action throughout the season for all crops.

COMPATIBILITY WITH IPM PROGRAMS

When KARAMATE DRY FLO NEOTEC is used as directed it may result in a reduction in predatory mite populations although recovery is likely to commence within one to two months of the last application, with a lack of long term adverse effects. Other beneficial arthropods are unlikely to be significantly affected.

APPLE AND PEAR

Pest	Scab (<i>Venturia inaequalis</i> , <i>Venturia pirina</i>).
Rate	2.0 kg/ha.
Water volume	400-1500 L/ha. Increase the spray volume with the growth of the trees to ensure good coverage of the foliage and fruit. If water volumes greater than 1000 L/ha are applied such as to large trees in full canopy to later stages of fruit ripening DO NOT exceed 2.0 kg/ha of product.
Timing	Apply KARAMATE DRY FLO NEOTEC from bud burst onwards and continue until scab spore discharge has ceased (normally mid-July).
Interval between applications	Spray programmes at 7 day intervals during periods of high disease pressure or rapid growth: KARAMATE DRY FLO NEOTEC must not be applied sequentially but should be alternated with other protectant fungicides (such as captan). To improve control of fruit scab after the onset of petal fall KARAMATE DRY FLO NEOTEC may be tank mixed with other complementary fungicides such as SYSTHANE 20EW or INDAR 5EW in which case the rate of KARAMATE DRY FLO NEOTEC may be reduced to a maximum of 1.5 kg/ha. A repeat application of KARAMATE DRY FLO NEOTEC alone or in tank mixture cannot be made until 14 days has elapsed. Spray programmes at 10 day intervals: When applied at 10 day intervals KARAMATE DRY FLO NEOTEC must be applied at 2.0 kg/ha in tank mixture with complementary fungicides such as SYSTHANE 20EW or INDAR 5EW for optimum control of scab and post-infection (kick-back) activity.
Maximum number of applications	4 per crop.
Latest time of application	28 days before harvest.

GRAPE VINE

Pest	Downy mildew (<i>Plasmopara viticola</i>).
Rate	0.2 kg in 100 litres of water as a high volume spray to ensure good coverage.
Water volume	400-1000 L/ha. Increase the spray volume with the growth of the vine, for example, spray at 400 L/ha in early stages of leaf growth, up to 1000 L/ha at the beginning of flowering stage. The rate applied is increased according to the recommended spray concentration. The rate of KARAMATE DRY FLO NEOTEC should not exceed a maximum of 2.0 kg/ha irrespective of the water volume used.
Timing	In the absence of an official warning, apply the first spray at 5-6 leaf stage, preventively, or follow the official warnings for protectant compounds. KARAMATE DRY FLO NEOTEC is best applied as part of a spray programme with other products effective against downy mildew, particularly under high disease pressures when KARAMATE DRY FLO NEOTEC may give a less consistent level of control.
Interval between applications	10 days.
Maximum number of applications	4 per crop.
Latest time of application	56 days before harvest.

OUTDOOR CROPS OF BULB ONION AND SHALLOT

Pest	Protectant control of rust (<i>Puccinia allii</i>).
Rate	2.5 kg/ha.
Water volume	200-1000 L/ha. Increase the spray volume with the growth of the plant to ensure good coverage and penetration. The rate of KARAMATE DRY FLO NEOTEC should not exceed a maximum of 2.0 kg/ha irrespective of the water volume used.
Timing	Apply from the 2 leaf stage onwards as a protectant spray before disease has established in the crop.
Interval between applications	7 days.
Maximum number of applications	4 per crop.
Latest time of application	28 days before harvest.

OUTDOOR CROPS OF COURGETTE

Pest	Moderate control of downy mildew (<i>Pseudoperonospora cubensis</i>).
Rate	2.0 kg/ha.
Water volume	500-1000 L/ha. Increase the spray volume with the growth of the plant to ensure good coverage and penetration. The rate of KARAMATE DRY FLO NEOTEC should not exceed a maximum of 2.0 kg/ha irrespective of the water volume used.
Timing	Apply from the 5 leaf stage onwards as a protectant spray before disease has established in the crop.
Interval between applications	7 days.
Maximum number of applications	4 per crop.
Latest time of application	3 days before harvest.

OUTDOOR CROPS OF CARROT AND PARSNIP

QUALIFIED MINOR USE RECOMMENDATION BASED ON LIMITED EVIDENCE OF EFFICACY

Pest	Alternaria leaf blight (<i>Alternaria dauci</i>).
Rate	2.0 kg/ha.
Water volume	200-1000 L/ha. Increase the spray volume with the growth of the plant to ensure good coverage and penetration. The rate of KARAMATE DRY FLO NEOTEC should not exceed a maximum of 2.0 kg/ha irrespective of the water volume used.
Timing	Apply from the 2 leaf stage onwards as a protectant spray before disease has established in the crop.
Interval between applications	14 days.
Maximum number of applications	4 per crop.
Latest time of application	30 days before harvest.

OUTDOOR ORNAMENTAL PLANT PRODUCTION, ORNAMENTAL PLANT PRODUCTION (POST HARVEST USE AND PROPAGATING MATERIAL) AND AMENITY VEGETATION

KARAMATE DRY FLO NEOTEC can be applied on spring and summer flowering species intended for both cut flower and bulb production for effective and reliable control of a range of ornamental flower diseases.

Do not apply KARAMATE DRY FLO NEOTEC on ornamental plants grown under protection.

In view of the large number of species and cultivars grown it is recommended to test KARAMATE DRY FLO NEOTEC on a small number of plants to confirm plant safety before spraying the crop.

Ornamental flowers for bulb production:

Spring and summer flowering species including Tulip, Iris and Gladiolus:

Pest	Tulip fire (<i>Botrytis</i> spp).
Rate	2.0 kg/ha.
Water volume	1000 L/ha. Apply in a disease control programme as a high volume spray ensuring good spray coverage and penetration.
Timing	Apply when plants are 1-2.5 cm high and repeat at 10-14 day intervals. Always apply two post-flowering sprays.
Interval between applications	10-14 days.
Maximum number of applications	4 per crop.

Cut flower production:

Including but not limited to Carnation and Pelargonium:

Pest	Assorted rust species including Japanese rusts (<i>Puccinia horiana</i>), Pelargonium rust (<i>Puccinia pelargoni zonalis</i>) and <i>Alternaria alternata</i>
Rate	2.0 kg/ha.
Water volume	1000 L/ha. Apply in a disease control programme as a high volume spray ensuring good spray coverage and penetration.
Timing	Apply as soon as the disease appears.
Interval between applications	10-14 days.
Maximum number of applications	4 per crop.

Chrysanthemum:

Pest	Ray blight (<i>Didymella chrysanthemi</i>)
Rate	2.0 kg/ha.
Water volume	1000 L/ha. Apply in a disease control programme as a high volume spray ensuring good spray coverage and penetration.
Timing	Commence spraying as soon as the crop is planted out and before disease is established.
Interval between applications	7-10 days.
Maximum number of applications	4 per crop.

Roses:

Pest	Black spot (<i>Diplocarpen rosae</i>), rose rust (<i>Phragmidium sp</i>)
Rate	2.0 kg/ha. Apply in a disease control programme as a high volume spray ensuring good spray coverage and penetration.
Water volume	1000 L/ha.
Timing	Apply as soon as the disease appears.
Interval between applications	10-14 days.
Maximum number of applications	4 per crop.

APPLICATION

KARAMATE DRY FLO NEOTEC should be applied through hydraulic sprayers providing they are in good working order and have been calibrated according to the manufacturer's recommendations.

WATER VOLUMES

KARAMATE DRY FLO NEOTEC should be applied in a minimum of 200 litres of water per hectare. Where high water volumes are applied over 1000 L/ha, do not exceed the maximum rate of product per hectare. Refer to individual crop recommendations for specific advice.

MIXING

Add half the required volume of water to the spray tank and begin agitation. Remove the filter basket and pour the required amount of KARAMATE DRY FLO NEOTEC into the partially filled spray tank. Continue agitation while topping up the tank and during spraying and transport operations.

When tank-mixing with other products add the KARAMATE DRY FLO NEOTEC after the other product has already dispersed in the spray tank.

COMPATIBILITY

For the latest advice on tank mixes please contact your dealer/advisor.

TRADEMARK ACKNOWLEDGEMENTS

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