

INSECTICIDE



DiPEL[®] DF

Active ingredient: *Bacillus thuringiensis* var *kurstaki* with a potency of 32,000 IU/mg.

Formulated as a water dispersible granule of a naturally occurring micro-organism.

A biological insecticide used for the control of caterpillars (Lepidopterous larvae) in vegetables, soft fruit, ornamentals and amenity vegetation.

Product Registration Number: **MAPP 14119**

A highly selective stomach acting biological insecticide which acts on the target larvae after ingestion of treated vegetation. Larvae stop feeding rapidly with death 1-3 days later.

Biodegradable.

fargro[®]

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ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

DiPEL[®] DF

- Formulated as a water dispersible granule of a naturally occurring micro-organism.
- Controls the larvae of Lepidopterous pests.
- Ideal for use as part of an Integrated Pest Management programme.
- Can be used to control Brown Tail Moth in amenity situations.
- Can be used on a wide range of crops including outdoor brassicas, ornamentals, some fruit and some protected edible crops.

The following text is taken from the approved product label:

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.

DiPEL DF is formulated as a water dispersible granule of a naturally occurring micro-organism.

PRODUCT BENEFITS:

DiPEL DF is biodegradable and leaves no detrimental residue on the crop when applied according to the use recommendations.

DiPEL DF acts on the target larvae after ingestion of the treated plant vegetation. Following the start of deterioration of the gut walls, the larvae stop feeding and die 24 to 72 hours later.

The efficacy of **DiPEL DF** on young larvae of Lepidopterous insects is similar to that of conventional insecticides when used according to the recommendations.

PESTS CONTROLLED

DiPEL DF is for the control of caterpillars (Lepidopterous larvae) and reduces crop damage caused by caterpillar feeding.

CROPS	RATES OF USE
Outdoor cabbage** Brussels sprouts, cauliflower, broccoli:	0.75-1.0 kg/ha*
Outdoor and protected ornamentals:	0.75 kg/ha
Amenity vegetation:	0.75 kg/ha
Strawberry, raspberry:	75 g/100 litres
Protected tomato, cucumber, pepper:	100 g/100 litres

*Use lower rate for normal infestation of young larvae and higher rate for heavy infestations or larvae at more advanced growth stages.
**In case of infestation with cabbage moth (*Mamestra brassicae*) use higher rate. (DiPel DF provides only some control of this pest).

MIXING AND SPRAYING

APPLICATION TIMING

Apply as soon as the first larvae are seen, preferably during an active feeding period, and repeat the application at intervals of 7 to 10 days until the end of the hatching period. If heavy rain falls shortly after application, before the larvae have the opportunity to absorb the product, repeat the application.

For optimum results it is best to apply the product avoiding conditions of high light intensity or temperatures outside the general range of 10-20°C. Spray the mixture on dry vegetation and do not apply if rain is expected within 6 hours of treatment.

Crop	Volume Water/ha
Field crops	400-1000 litres
Protected crops	400-2000 litres

APPLICATION VOLUME

The spray particles must be as fine and homogeneous as possible and sufficient volume of water should be used to ensure complete cover of the vegetation. The following spray volumes are given as a guide to application with higher volume applying to denser crop foliage, or larger trees and plants.

MIXING INSTRUCTIONS

Half fill the spray tank with water, add the correct quantity of DiPEL DF, then continue filling the tank until full using continuous agitation. Apply the spray mixture as soon as possible after its preparation.

MAXIMUM NUMBER OF APPLICATIONS

There are no restrictions on number of treatments applied.

SAFETY PRECAUTIONS

Precautions marked * are a legal requirement.

Operator Protection

Avoid contact with eyes.

*Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT when handling this product.

*Filtering facepiece respirator to at least EN149 FFP3 or equivalent.

*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 before eating and after work.

DO NOT BREATHE DUST.

Environmental Protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with the chemical or used container.

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM CHILDREN AND PETS.

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

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

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

IMPORTANT INFORMATION	
FOR USE ONLY AS AN AGRICULTURAL AND HORTICULTURAL INSECTICIDE	
Crop	Maximum individual Dose
Cabbage (outdoor), cauliflower (outdoor), Brussel sprouts (outdoor), broccoli (outdoor)	1 kg product per hectare
Tomato (protected), cucumber (protected), pepper (protected)	100 g product per 100 litres
Strawberry, raspberry	75 g product per 100 litres
Ornamental plant production, amenity vegetation	0.75 kg product per hectare

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.

Approval Holder:
Valent BioSciences Corporation,
A Division of Sumitomo Chemical Agro
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Pack size: 500 g
Outers of: 24 x 500 g

Marketing Company:
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Safety data sheet available on request.

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Emergency Number for DiPel DF:
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