

# DiPel®

BIOLOGICAL INSECTICIDE

Bt

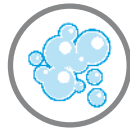
FRUIT & VEGETABLES



Resistance management  
rotation option



No re-entry  
Interval



No WHP,  
no residues



Safe to all  
beneficial  
insects



Stops feeding  
immediately

## DiPel – Be Biorational

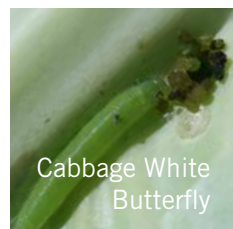


BIORATIONAL  
**WINDOW**  
ACO CERT. NO. 10332





# Bt

# FRUIT & VEGETABLES

**DiPel®** is a dry flowable formulation containing live spores and endotoxin of *Bacillus thuringiensis* subsp. *Kurstaki* (Btk). As a Biological Insecticide **DiPel** not only presents as an ideal caterpillar control option but has a number of features specific to biological insecticides that make rational scientific and economic sense.



BIO	RATIONAL
No Impact on beneficials	Additional pest control through natural predators
No Withholding Period	Spray up to harvest
No residues	More markets
No re-entry interval	Keeps workers working
No restriction on the number of sprays	Can be used for on-going spray programmes
Non-scheduled, non-poisonous	Operator safety
Organic	Opens new high value markets

-  DiPel is highly effective against Lightbrown Apple Moth, Cabbage White Butterfly, helicoverpa, Looper, Vine moth and a wide range of caterpillars.
-  Early season biorational window provides high efficacy against young instars and is safe to beneficials allowing natural predators to continue protecting crops.
-  Mid season, the biorational window provides strong resistance management benefits while offering no re-entry interval for workers.
-  Late season, DiPel can be used right up until harvest as it has no WHP and no residues.



## Be Biorational

BIORATIONAL  
**WINDOW**  
Organic Insecticide

# Biorational Window Seasons

**EARLY SEASON** →



## SAFE TO BENEFICIALS

DiPel is safe to all beneficial insects. Applying early in the season allows natural predators to continue to assist in controlling pest populations.



## STOPS FEEDING IMMEDIATELY

DiPel causes insects to stop feeding immediately meaning no further damage to crops. During the early season pest populations are in their early stages. Young instars are concentrated and relatively immobile which is when DiPel is especially effective.

**MID SEASON** →



## RESISTANCE MANAGEMENT

Many recent chemistry introductions to the market, whilst offering good benefits, belong to the same mode of action group. Resistance management is all about rotating chemistries. DiPel offers different mode of action and a great option in the spraying program.



## ENVIRONMENTAL SAFETY

Sustainability is a key watchword for growers, shippers, and marketers of high quality produce. DiPel is highly specific and that translates into low-impact products.

They have no re-entry interval, no WHP and are non-scheduled, non-poisonous product.

As Australian Organic Registered Farm Input they can assist growers in opening new high value markets and is a perfect solution for sustainability-minded growers.

**LATE SEASON**



## HARVEST MANAGEMENT

An entire season's worth of time and investment comes down to maintaining quality at harvest time. DiPel can be used right up until harvest providing growers with an effective tool at a critical stage of production and granting flexibility without sacrificing quality.



## RESIDUE MANAGEMENT

DiPel provides a premier management tool for fruit and vegetable growers. Exempt from residue tolerance, use of Bts for late season applications is a critical part of the production cycle whenever Maximum Residue Limits are an issue. DiPel provides effective control while helping growers and brokers avoid crop rejection problems with buyers.

## Getting the Best from DiPel

There are some very straightforward ways of ensuring you get the maximum benefits from DiPel and XenTari®.

- Ensure water pH is less than 8 as high pH level may reduce efficacy.
- Use a surfactant at label rates and a high water rate to ensure good coverage. Feeding attractants may also improve the intake of DiPel DF however good coverage is critical.
- Avoid rain or irrigation for 24 hours after spraying.
- To reduce the impact of UV breakdown spray after 4pm. Good results have been achieved by growers spraying at night.
- Careful monitoring of pests and beneficial insect levels is important. Knowing what pest pressure you have and what stage they are up to is important in knowing when to spray and how often.
- Spraying at egg hatch is most effective. The smaller instars of the key caterpillar pests are significantly easier to control than large instars. Additionally, the large instars have already caused damage to the crop.
- To maintain beneficial insects ensure other products used in the spray program have a low impact on beneficials, ensure hard chemicals like pyrethroids are not used on the same or adjacent fields and ensure tank lines are cleaned after the use of other pesticides.



# Bt

## Directions for Use

CROP	PEST	RATE
Agricultural and Non-Agricultural Uses:	Lepidopteran larvae susceptible to DiPel, including: Armyworm ( <i>Spodoptera</i> spp.)	0.5 to 2.0 kg/ha
Vegetables	Cotton bollworm ( <i>Helicoverpa armigera</i> )	Dilute
Fruits	Native budworm ( <i>Helicoverpa punctigera</i> )	Spraying
Vines	Cabbage moth ( <i>Plutella xylostella</i> )	(to the point of run-off)
Oilseeds	Cabbage white butterfly ( <i>Pieris rapae</i> )	25 to 100 g/100 L
Cereal Grains	Green looper ( <i>Chrysodeixis eriosoma</i> )	
Herbs	Lightbrown apple moth ( <i>Epiphyas postvittana</i> )	
Tobacco	Pear looper ( <i>Ectropis excursaria</i> )	
Ornamentals	Soybean looper ( <i>Thysanoplusia orichalcea</i> )	Concentrate
Forestry	Vine moth ( <i>Phalaenoides glycinae</i> , <i>Agarista agricola</i> )	Spraying
Amenity Trees	Tobacco looper ( <i>Chrysodeixis argentifera</i> )	100 to 1000 g/100 L
Turf		

Please refer to full label for critical comments.

### Quality Formulations

DiPel comes from the company that has more experience with Bt insecticides than anyone else. This experience has led to continuous innovation in fermentation, formulation and application technology allowing the products to maintain their effectiveness in today's tough insect control environment.

The combination of experience and innovations means that the DiPel formulation is unequalled in terms of:

- Bioactivity
- Rainfastness
- Consistency of formulation
- Ease of application

Scan this QR code for more information about DiPel DF:



For further information contact:



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# BIORATIONAL WINDOW