



READ SAFETY DIRECTIONS BEFORE USING OR OPENING

Polynate™

Bee attractant controlled release dispensers

Active Constituents: Floral attractants and components of honeybee worker pheromone.

To enhance bee activity in flowering plants, Polynate dispensers contain naturally occurring volatiles that attract bees to their vicinity and enhance the level of foraging behaviour. This can lead to improved levels of pollination where bee activity is the limiting factor.

Contents: 500 units

DIRECTIONS FOR USE:

Crop	Insect	Rate/hectare
Almond, Apple, Apricot, Avocado, Blueberry, Cashew, Cherry, Citrus, Kiwifruit, Macadamia, Melon, Nashi, Pear, Plum, Prune, Strawberry and other bee pollinated crops	Honey bee (<i>Apis mellifera</i>) and other bees in subfamily Apinae including some native bees	1000

Polynate dispensers should be looped over the ends of limbs in that part of the tree or vine canopy where most flowering is likely to occur. Distribute dispensers evenly throughout the treated area.

TIMING OF APPLICATION: Prior to flowering. As Polynate is designed to operate for 8 weeks or more, early application is acceptable.

CAUTION: Do not apply insecticides while bees are active in crops. This product is not to be used for any other purpose or in manner contrary to the label.

WITHHOLDING PERIOD: Not required when used as directed.

PROTECTION OF LIVESTOCK: May be applied to crop at any time.

STORAGE AND DISPOSAL: Keep out of reach of children. Store in unopened original foil envelopes. If Polynate is to be held for longer than 3 months, it should be held under refrigeration at or below 5°C. Dispose of empty packets and used dispensers in municipal rubbish.

SAFETY DIRECTIONS: Wash hands after use.

FIRST AID: If poisoning occurs contact a doctor or your local Poisons Information Centre.

LIABILITY OF BIOGLOBAL LTD

The effectiveness of this product in managing crop pollination depends upon various factors present during and after application and upon the skill and judgement of the user. Bioglobal Ltd does not accept any liability for harm or damage resulting from: 1) this product or its use; or 2) the purchaser acting on advice given in good faith by any representative of the company unless the product itself can be shown not to comply with the specifications on the label and damage results from that non-compliance. If these conditions are enforceable to the purchaser, the goods should be returned unopened within 7 days for a refund of the purchase price.

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Polynate™

POLYNATE is a controlled-release dispensing technology for enhanced bee attraction and pollination used in flowering plants such as fruit and vegetable crops where bee activity is the limiting factor.

POLYNATE dispensers release honeybee and native bee attractants throughout the crop-flowering and bee pollination period. Scientifically designed to coincide with the duration of a crop-flowering period POLYNATE lasts for 6-8 weeks in the field. A single application prior to bloom can help growers manage bee activity which can result in better pollination and uniformity of fruit.

POLYNATE is the ultimate in bee attractant tools and comes with:

- Fluoro yellow fade-straps to indicate age and aid visibility in trees.
- Dispenser-strap feature to allow quick and easy application to trees.
- 500 dispensers per pack for fast calculation.
- Field life that times in with crop flowering.
- Rain resistant – not affected by rainfall, overhead irrigation or over tree cooling.

Crops where POLYNATE can be applied include:

- Almond
- Apple
- Apricot
- Avocado
- Blueberry
- Cashew
- Cherry
- Coffee
- Cucumber
- Kiwifruit
- Lychee
- Macadamia
- Mango
- Melons
- Nashi
- Okra
- Peach
- Pear
- Plum
- Prune
- Pumpkin
- Raspberry
- Strawberry

THE NEED FOR BEES



Bees are an essential component of agro-ecosystems as they provide pollination which not only enhance the productivity of agricultural crops, but also help in conservation of biological diversity through the propagation of wild flora. Studies conducted by the University of Florida indicate that the use of bee attractants may be advantageous when one or more of the following criteria exist:

- An inadequate number of beehives are present
- Available hives have low bee populations
- Death of bees from pesticide misuse
- Cold, windy or overcast weather
- Competing crops or weeds are nearby
- Lack of adequate viable pollen
- Improved seed yield or quality is necessary
- Reduced incidence of hollow or misshaped produce is required



COLONY COLLAPSE DISORDER

Colony Collapse Disorder in honeybees is a global problem which has been scientifically reported worldwide. The cause of this disorder is not fully understood, but it causes worker bees to suddenly disappear from the hive, reducing the overall health of the hive and in many cases reducing the overall pollination the bees can accomplish.

Bioglobal's POLYNATE bee attractant dispensers can help manage the overall improvement in pollination where bee numbers are suboptimal.



IMPORTANCE OF BEE POLLINATION

Currently one third of world's food is derived from bee pollination. Most fruit, nut, and many vegetable crops require bee-mediated pollination for optimal yields and grower demand for pollination services is rising. Honeybees provide most crop pollination but dozens of native, wild species also pollinate specialty crops to largely unknown extents. Some of these native bees could also be used as managed pollinators, and diversifying the sources of pollination is expected to improve long-term crop yields.

Bioglobal's POLYNATE bee attractant dispensers can assist growers in managing pollination through the attraction of bees from both managed bee hives and native species of bees that are nearby.



BENEFITS OF POLYNATE

POLYNATE is the ultimate in bee attractant tools and delivers a number of benefits to fruit and vegetable growers:

- Proven attractants that operate effectively throughout the pollination period.
- Dispenser-strap feature to allow quick and easy application to the crop.
- Scientifically proven across a range of fruit-bearing crops (Figure 1).
- Non-toxic to other beneficial insects and natural enemies that are present in the natural ecosystem.
- Rain resistant – not affected by rainfall, overhead irrigation or over-tree cooling and does not wash off like other spray-on technologies.
- Proven dispenser technology delivering a consistent and uniform release rate.
- Residue free.
- Can assist pollination management in orchards using hail netting.
- Cost-effective and may help when weak hives or Colony Collapse Disorder is present.
- Completely compatible with other orchard practices and is a useful tool for integrated pest management programs.

Polynate Trial in Almonds
Fresno California 2011

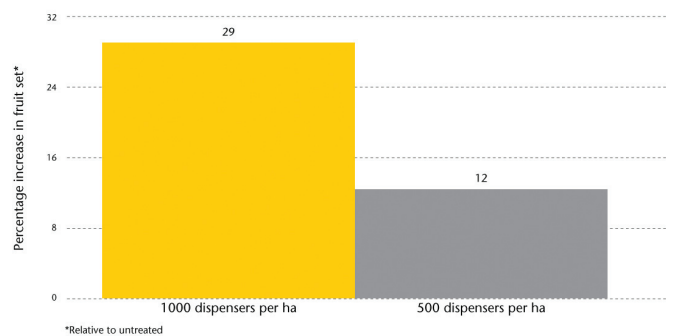


Figure 1

Field trial results of POLYNATE in almonds. Fruit set was increased by 29% relative to untreated trees where 1000 dispensers per hectare were used.