

Emerging Issue . . .

Pollinator Protection Labeling



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Pesticide Regulation
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Overview

- Background re: Neonicotinoids (Neonics)
- Specific Active Ingredients targeted
- Targeted application type:
“Outdoor foliar”
- All formulations, except granulars
- Labeling changes



Background

- Neonicotinoids
- 4 of 6 Active Ingredients highly toxic
 - No direct link to Colony Collapse Disorder
 - ↑ Susceptibility to parasites / pathogens
- Foliar spray concerns:
 - Residue in pollen/nectar can be lethal
 - Direct contact – hazardous
 - Contamination of adjacent weeds, wildflowers



Targeted Active Ingredients

Active Ingredients

DPR – new “Bee labels”

- Thiamethoxam
- Imidacloprid
- Dinotefuran
- Clothianidin

- Flagship 25 **WG** 100-955
- Imidacloprid 60WP _{GH}
 - 42750-153
- Admire Pro 264-827
- (*Safari 20 **SG**,
no bee label yet*)
- No pertinent example

THE NEW EPA BEE ADVISORY BOX

On EPA's new and strengthened pesticide label to protect pollinators

PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/pollinatorprotection/Pages/default.aspx>

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state/tribe, go to: www.aapco.org. Pesticide incidents can also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

Alerts users to separate restrictions on the label. These prohibit certain pesticide use when bees are present.



The new bee icon helps signal the pesticide's potential hazard to bees.

Makes clear that pesticide products can kill bees and pollinators.

Bees are often present and foraging when plants and trees flower. EPA's new label makes it clear that pesticides cannot be applied until all petals have fallen.

Warns users that direct contact and ingestion could harm pollinators. EPA is working with beekeepers, growers, pesticide companies, and others to advance pesticide management practices.

Highlights the importance of avoiding drift. Sometimes, wind can cause pesticides to drift to new areas and can cause bee kills.

The science says that there are many causes for a decline in pollinator health, including pesticide exposure. EPA's new label will help protect pollinators.



Protection of Pollinators



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Protection of Pollinators

Product can kill bees & other pollinators

Bees will forage when plants flower,
shed pollen, or produce nectar



- Pesticide exposure from foliar apps via:
 - Direct contact
 - Residue on plant surfaces
- Ingestion of residues in pollen/nectar from:
 - Treated Soil
 - Treated Seed
 - Tree Injection
 - Foliar Spray

Protection of Pollinators

When using this product take steps to

- Minimize:
 - Exposure to bees when foraging on “attractive plants” around site
 - Drift to beehives, or to off-site pollinator attractive habitat. Drift can result in bee kills
- Links provided for bee protection info & reporting pesticide incidents
In CA – contact local County Ag office



Additional Bee Protections

- In addition to label Pollinator Protection
- Existing label language re: Bees
- In CA – also adhere to Bee Protection regulations
- Whenever labeling & laws/regulations differ – most stringent requirement used

Directions for Use: Item 1

FOR CROPS UNDER CONTRACTED POLLINATION SERVICES

- If application must be made when managed bees are at treatment site



- Do **not** apply this product:
 - While bees are foraging
 - Until flowering is complete &
 - All petals have fallen



- Unless following condition is met:
 - Notify beekeeper \leq 48-hours prior to app to:
 - Remove, cover or protect bees prior to spray

Directions for Use: Item 2

FOR FOOD CROPS & COMMERCIALY GROWN
ORNAMENTALS “ATTRACTIVE TO POLLINATORS”
NO CONTRACT

- Do **not** apply this product:
 - While bees are foraging
 - Until flowering is complete &
 - All petals have fallen
- Unless one of the following conditions is met



Directions for Use: Item 2

FOR FOOD CROPS & COMMERCIALLY GROWN
ORNAMENTALS “ATTRACTIVE TO POLLINATORS”
NO CONTRACT

Conditions: Application to target site:

- after Sunset
- Temperatures below 55°F
- Active state apiary registry program
- Government public health response
- Imminent threat of significant crop loss



Directions for Use: Item 3

FOR NON-AGRICULTURAL PRODUCTS:

- Do **not** apply {product name}:
 - While bees are foraging
 - Until flowering is complete &
 - All petals have fallen
- No conditions:



Impacts / Considerations

- Training of Applicators
 - Label
 - Awareness of bees “foraging”
 - ID “pollinator attractive plants” near site
 - ID off-site “pollinator attractive habitats”
- Existing Stock vs “New” Stock w/PP label
 - Can use existing stock; existing label



Status of Fed/State Labeling

REGISTRATIONS: Few submissions

U.S. EPA registration: ~300 products

- 8/13/13 – Registrants notified re: Bee text
- 10/1/13 – Amended labels due
 - *EPA could “cancel” product, but...*
- **2/28/14** – Can't sell if no new label

DPR: ~155 products require change

- 30 received to date; 20 registered

Questions?

