

PESTICIDE BOARD SUBCOMMITTEE MEETING

MINUTES OF MEETING

July 19, 2019

**The Department of Agricultural Resource, 251 Causeway St., FL #5 Conference RM 1
Boston, MA**

MEMBERS PRESENT

- Michael Moore, Chairperson, Director of Food Protection Program
 - Department of Public Health
- Hotze Wijnja, Ph.D., Alternate Designee for Commissioner John Lebeaux
 - Department of Agricultural Resources
- Marc Nascarella, Designee for Commissioner Monica Bharel
 - Department of Public Health
- Nicole Keleher, Designee for Commissioner Leo Roy
 - Department of Conservation and Recreation
- Richard Berman
 - Commercial Applicator

ALSO PRESENT:

- Susie Reed, Department of Agricultural Resources
- Bruce Taub

I. MINUTES

VOTED

That the Pesticide Board Subcommittee approves the summary notes for February 15, 2019 meetings.

Moved: Berman

Second: Wijnja

Approved: 4-0

That the Pesticide Board Subcommittee approves the summary notes for March 19, 2019 meetings.

Moved: Berman

Second: Keleher

Approved: 4-0

II. PRODUCT REGISTRATIONS

VOTED

That the Pesticide Board Subcommittee registers the pesticide products listed on the EIPAS PR July 19, 2019 Subcommittee cover letter with the exception of the following product:

1. ArmorTech Sulf 396, EPA Reg. No.87290-59-86064
2. Dimetric EXT, EPA Reg. No. 1381-197
3. Echo ZN, EPA Reg. No. 60063-4
4. ArmorTech SureZone, EPA Reg. No. 2217-823-86064
5. Quali-Pro Chlorothalonil DF, EPA Reg. No. 53883-313

Moved: Berman

Second: Wijnja

Approved: 4-0

STATE RESTRICTED USE MOTIONS

RESTRICTED USE AS DEFINED UNDER THE GROUNDWATER REGULATIONS

Move: that the Pesticide Board Subcommittee has determined that the use of the following products:

1. ArmorTech Sulf 396, EPA Reg. No. 87290-59-86064, and ArmorTech SureZone, EPA Reg. No. 2217-823-86064 containing ***Sulfentrazone***
2. Dimetric EXT, EPA Reg. No. 1381-197 containing ***Metribuzin***
3. Echo ZN, EPA Reg. No. 60063-4 and Quali-Pro Chlorothalonil DF, EPA Reg. No. 53883-313 containing ***Chlorothalonil***

may cause an unreasonable risk to man or the environment, taking into account the economic, social and environmental costs and benefits of use. This determination is based upon the leaching potential and toxicological concern of this substance as defined in the "Protection of Groundwater Supplies from Non-Point Source Pesticide Contamination" Regulations. Therefore, the Subcommittee hereby modifies the registration classification of agricultural/commercial pesticide products containing ***Sulfentrazone***, ***Metribuzin***, and ***Chlorothalonil*** from general to restricted use for groundwater concerns.

Moved: Berman

Second: Keleher

Approved: 4-0

III. NEW ACTIVE INGREDIENT

Discussion of the new active ingredient ***Beauveria bassiana*** strain PPRI 533.

1. The new active ingredient is a bio-pesticide, *Beauveria bassiana* strain PPRI 533 formulated in Velifer Fungal Contact Insecticide/Miticide, EPA Reg. No. 71840-22, label for enclosed commercial greenhouses on ornamentals, fruits, vegetables, and spices. This product contains spores of this fungus that are known to be pathogenic to variety of insects.

This particular strain was registered by U.S. EPA in 2018. Four different strains of this fungus were already registered. The Subcommittee meeting package included EPA's registration decision summary document, available in the regulatory docket "EPA-HQ-OPP-2016-0609" at www.regulations.gov. Wijnja presented a summary of this information.

This particular strain was isolated from beetle larvae in South Africa. The mode of action is initiated by the target insect coming in contact with the spores sprayed on plants. The spores germinate and produce enzymes that brake down cuticle and allow the fungus to further colonize the host and eventually kill the pest.

Human health risk assessment information indicates a low mammalian acute toxicity profile, classified in category III or IV, mild eye irritation potential, minimal dermal irritation, and not being pathogenic or infectivity through pulmonary exposure and injection. The inhalation exposure to the technical grade is classified to be highly toxic, but the end-use product is classified as non-toxic for this exposure route.

In the dietary exposure risk assessment, EPA indicates that exposure to food crops is possible, but not expected to be significant. The fungus in not taken up systemically by the plant, surface residues that are present are likely to be removed during processing and washing. The drinking water exposure is not expected to be significant based on the greenhouse use pattern.

The occupational risk assessment indicates that it has potential for mild eye irritation and allergic sensitization. Personal protection equipment requirements include the use of a respirator to mitigate this risk. With the use of baseline personal protection gear the occupational risk is below the level of concern.

Ecological risk assessment concludes that exposure to non-organism is expected to be minimal based on the greenhouse use pattern of the product. Risk to birds and mammals are not expected based on the low toxicity profile. In addition, the fungus does not grow at body temperature of mammals and birds. Risk to aquatic life is not expected since exposure to aquatic systems is low.

Non-target insects, including honey bees, may be of concern since this fungus is known to be pathogenic to a wide range of insects. However, exposure to non-target insects in

the wild is unlikely with the use in enclosed greenhouses. The risk to pollinators that are used in the greenhouse is addressed by precautionary label language.

The benefits of this new active ingredient include its low toxicity profile, being target-specific, naturally occurring in soil, potential to reduce the use of conventional pesticides, and having a new mode of action that is helpful in resistance management. This bio-pesticide is exempt from requirements of tolerance in food and feed commodities, which further facilitates its use in resistance management program.

EPA registered this active ingredient unconditionally. Relative to the Massachusetts groundwater protection regulations (333 CMR 12.00), it was indicated that this active ingredient does not meet criteria for potential groundwater pollutant.

Move that the Pesticide Board Subcommittee approve the product registrations for the following pesticide products. These products contain the active ingredient *Beauveria bassiana* strain **PPRI 5339** and have never before been registered in Massachusetts.

2. VELIFER FUNGAL CONTACT INSECTICIDE/MITICIDE, EPA Reg. No. 71840-22

Moved: Berman
Second: Nascarella
Approved: 5-0

IV. **New Business**

Wijnja provided an update on the status of the new online product registration system that is now being used for renewals and new product registrations in Massachusetts.

MOTION TO ADJOURN THE MEETING

It was moved, seconded and passed unanimously.

VOTED

To adjourn the July 19, 2019 Subcommittee Meeting.

Moved: Berman
Second: Moore
Approved: 5-0
Meeting adjourned at 9:40 a.m.