

PESTICIDE BOARD SUBCOMMITTEE MEETING

MINUTES OF MEETING

July 21, 2017

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

MEMBERS PRESENT

- Hotze Wijnja, Ph.D., Alternate Designee for Commissioner John Lebeaux
 - o Department of Agricultural Resources
- Kenneth Gooch, Designee for Commissioner Leo Roy
 - o Department of Conservation and Recreation
- Richard Berman
 - o Commercial Applicator

ALSO PRESENT:

- Susie Reed, Department of Agricultural Resources

I. MINUTES

VOTED

That the Pesticide Board Subcommittee approves the summary notes for March 24, 2017 and April 21, 2017 meetings.

Moved: Berman

Second: Gooch

Approved: 2-1 (Note: abstention by Berman)

II. PRODUCT REGISTRATIONS

a. Packet number 180701-180708

VOTED

That the Pesticide Board Subcommittee registers the pesticide products in packets numbers 180701-180708 with the exception of the following products:

1. ILeVO, EPA Reg. No. 264-1167 (SRU)
2. Omni-Brand Chlorothalonil 720 SC, EPA Reg. No. 5905-602 (SRU)
3. Acifluorfen 2, EPA Reg. No. 85678-18 (SRU)
4. Dismiss NXT Herbicide, EPA Reg. No. 279-3383 (SRU)
5. Intrepid Edge, EPA Reg. No. 62719-666 (SRU)
6. Crosscut Select, EPA Reg. No. 89442-31 (SRU)

Moved: Berman

Second: Gooch

Approved: 3-0

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. ILeVO, EPA Reg. No. 264-1167 containing ***Fluopyram***
2. Omni-Brand Chlorothalonil 720 SC, EPA Reg. No. 5905-602 containing ***Chlorothalonil***
3. Acifluorfen 2, EPA Reg. No. 85678-18 containing ***Acifluorfen***
4. Dismixx NXT Herbicide, EPA Reg. No. 279-3383 containing ***Sulfentrazone***
5. Intrepid Edge, EPA Reg. No. 62719-666 containing ***Methoxyfenozide***

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 ***Fluopyram, Chlorothalonil, Acifluorfen, Sulfentrazone*** and ***Methoxyfenozide*** from general to restricted use for groundwater concerns.

Moved: Berman
Second: Wijnja
Approved: 3-0

2,4-dichlorophenoxyacetic Acid (2,4-D) MOTION

Move: That the Pesticide Board Subcommittee registers the following products:

1. CrossCut Select, EPA Reg. No. 89442-31

as restricted use pursuant to the Subcommittee's decision on April 14, 1989, to register products containing 20% or more of **2,4-dichlorophenoxyacetic acid (2,4-D)** and/or its derivatives as state restricted use.

Moved: Berman
Second: Gooch
Approved: 3-0

III. NEW ACTIVE INGREDIENTS

- Discussion of the new active ingredient *Isaria fumosorosea strain FE 9901* (NoFly WP Mycoinsecticide, EPA Reg. No. 88664-1)

Isaria fumosorosea Strain FE 9901 is a microbial insecticide, formulated in the product NoFly WP Mycoinsecticide (88664-1). The product is labeled for control of whiteflies, aphids, trips, mealybugs, and other insects on ornamentals and food crops grown in greenhouses and other indoor environments. The new use of this specific strain is for indoor food crops.

The product is applied using conventional spray equipment and also by hydroponic application. Pre-Harvest Interval is up to the day of harvest.

The EPA registration decision document (www.regulations.gov; docket “EPA-HQ-OPP-2014-0330” and/or “EPA-HQ-OPP-2010-0093”) states that the registration for this active ingredient was amended to include the use on food crops.

The mode of action is a fungus that acts as a parasite of insects.

Overall toxicity profile characterized by a low oral toxicity, category III; studies of acute dermal and eye irritation were waived based on nature of this product. It does not infect any organism other than arthropods, and data indicates it is not toxic, pathogenic, or infective by oral, pulmonary, and injection routes. The chemical is a skin sensitizer. Occupational label language includes Personal Protection Equipment measures to protect the skin.

There was no quantitative exposure assessment conducted. Exposure through food is possible,, but is not expected to exceed levels of concern. Drinking water exposure is not expected based on use pattern and the nature of the compound. Occupational exposure is not of concern when adhering to Personal Protection Equipment label requirements.

Ecological risk was not expected based on use pattern and compounds properties. Minimal exposure to non-target organism is expected and data for non-target organism toxicity were not required.

NoFly WP Myco insecticide provides a new tool for Integrated Pest Management Programs. The benefits include that it provides an alternative to currently registered alternative products based on neonicotinoids and pyrethrins. The active ingredient is exempted from tolerance for all food commodities and may be preferred by certain growers.

Regulatory decision indicates product was amended to include use on food crops, grown indoors and greenhouse nursey plants.

The properties of this active ingredient do not meet the criteria for potential groundwater pollutant criteria as outlined in 333 CMR 12.00.

Move that the Pesticide Board Subcommittee approve the product registrations for the following pesticide products. This product contains the active ingredient *Isaria fumosorosea strain FE 9901* and has never before been registered in Massachusetts.

1. NoFly WP Mycoinsecticide, EPA Reg. No. 88664-1

Moved: Berman

Second: Hotze

Approved: 3-0

Discussion of the new active ingredient **Pyriofenone** (Prolivo 300 SC Fungicide, EPA Reg. No. 715121-24-88783)

Pyriofenone is new active ingredient formulated in Prolivo 300 SC Fungicide, EPA Reg. No. 71512-24-88783. This product is labeled for control of powdery mildew on cucurbit vegetable crops and berry crops, with except cranberry.

Prolivo 300 SC Fungicide is applied by conventional spray equipment at a rate of 4 to 5 fluid ounce per application (0.078 – 0.098 lb ai/acre) with a 7 to 10 day application interval. It can be applied up to the day of harvest.

The EPA registration decision document (www.regulations.gov; docket ID number EPA-HQ-OPP-2014-0153) was provided to Subcommittee. US EPA reviewed the active ingredient jointly with Pest Management Regulatory Agency (PMRA) of Canada. An important tolerance was established in 2012.

Pyriofenone is classified as a benzophenone fungicide; the exact mode of action is unknown, but attributed to disruption of cellular protein actin. Registrant claims local systemic movement in the plant.

The toxicity profile of this active ingredient indicates low acute toxicity exposure by oral and dermal routes, classified in category III, inhalation toxicity in category IV, it is not irritating to eyes or skin and it is not a skin sensitizer. The formulated product has a low toxicity indicated by the signal word ‘caution’ on the label.

The target organs are the liver, kidneys and cecum. No developmental toxicity was observed in studies with rat, but abortions were observed in studies of rabbits at the highest dose. No reproductive effects were observed, the compound is not genotoxic or mutagenic, and it does not cause tumors; it was classified as ‘not likely to be carcinogenic to humans’.

There was no acute dietary risk assessment conducted absent a definite end-point for acute toxicity. The chronic dietary risk assessment indicated that the exposure was below the level of concern (7.2% of the cPAD for children, the most sensitive sub-population).

Occupational risk for handlers was below level of concern with baseline personal protection equipment. Post-application exposure was not quantitatively assessed, because no dermal toxicity endpoint was available; low risk is expected.

Environmental fate characteristics of the compound include that it has a low solubility in water, it is not volatile, the major route of degradation is by microbial activities, soil degradation half-life range from 50 to 150 days under aerobic conditions, aquatic metabolisms is faster with half-lives 5 to 17 days, dissipation in field half-live ranges from 50-275 days. It is moderately mobile in soils.

Ecological risk assessment identified potential risk to monocot plants and aquatic invertebrates based on toxicity information with non-definite endpoints which was the basis for potential risk conclusion. However, the overall risk is expected to be low.

The benefits of this product include that it provides an effective new chemistry that can be used as part of the rotation of fungicides to control powdery mildew. It is particularly valuable tool for berries since this product provides the only U8 fungicide for use on berries and small fruit.

Pyriofenone was unconditionally registered by EPA with label requirements that address drift and spray management.

This chemical does not meet the criteria for potential groundwater pollutant as specified in the groundwater protection regulations 333 CMR 12.00.

Move that the Pesticide Board Subcommittee approve the product registrations for the following pesticide products. This product contains the active ingredient ***Pyriofenone*** and has never before been registered in Massachusetts.

1. Prolivo 300 SC Fungicide (EPA Reg. No. 715121-24-88783)

Moved: Berman

Second: Gooch

Approved: 3-0

MOTION TO ADJOURN THE MEETING

It was moved, seconded and passed unanimously.

VOTED

To adjourn the July 21, 2017, Subcommittee Meeting.

Moved: Berman

Second: Gooch

Approved: 3-0

Meeting adjourned at 9:35 a.m.