PESTICIDE BOARD SUBCOMMITTEE MEETING

MINUTES OF MEETING

October 20, 2017

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., Designee for Commissioner John Lebeaux
  - Department of Agricultural Resources
- Kenneth Gooch, Designee for Commissioner Leo Roy
  - Department of Conservation and Recreation
- Richard Berman
  - Commercial Applicator

ALSO PRESENT:

- Susie Reed, Department of Agricultural Resources

I. MINUTES

VOTED

That the Pesticide Board Subcommittee approves the summary notes for September 15, 2017 meeting.

Moved: Berman
Second: Wijnja
Approved: 3-0

II. PRODUCT REGISTRATIONS

a. Packet number 181014-181015

VOTED

That the Pesticide Board Subcommittee registers the pesticide products in packets numbers 181014-181015 with the exception of the following products:

1. Rightline Sulfen 4 SC, EPA Reg. No. 87290-59-93051 (SRU)
2. Equus 720 SST Fungicide, EPA Reg. No. 5481-619 (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. Rightline Sulfen 4 SC, EPA Reg. No. 87290-59-93051 containing ***Sulfentrazone***
2. Equus 720 SST Fungicide, EPA Reg. No. 5481-619 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,*** and ***Chlorothalonil*** from general to restricted use for groundwater concerns.

Moved: Berman
Second: Wijnja
Approved: 3-0

III. NEW ACITIVE INGREDIENT

- Discussion of the new active ingredient ***Tioxazafen*** (Acceleron NemaStrike ST, EPA Reg. No. 524-624)

  Tiaxazafen is the new active ingredient formulated in two products Acceleron NemaStrike ST, EPA Reg. No. 524-624, and additional brand name product.

  Acceleron NemaStrike ST is labeled for use on cotton and soybean, the alternate name product is labeled for use on soybean only. These products are label for use in commercial seed treatment

facilities using fully-automated closed seed treatment system. The treatment of seeds is for the purpose to control nematodes.

Wijnja stated that inquiries with pesticide industry representatives indicated that such facilities do currently not exist in MA. Seeds treated with this product may be used by growers in MA and therefore the seed labeling requirements included on Acceleron NemaStrike ST label are relevant when growers in MA plant such treated seeds in MA.

EPA's registration decision document for the new active ingredient tioxazafen (April 4, 2017)[1] was included in the meeting package and Wijnja presented a summary of the information.

EPA's review of tioxazafen was done in collaboration with Health Canada's Pest Management Regulatory Agency (PMRA). Tioxazafen is a systemic nematicide in the phenyl oxadiazole chemical class. The mode of action involves a disruption of ribosomal activity.

Human health risk information indicates that this chemical has a low acute toxicity profile (category IV) for all major routes of exposure; it is a mild eye irritant, but a non-irritant to the skin. Chronic toxicity study with mice indicated liver tumors occur. Based on the available data, tioxazafen was classified as 'likely to be carcinogenic to humans'. Additional mode-of-action studies are ongoing to refine the assessment. Developmental effects were not found, neurotoxic effects are of low concern, and the chemical is not mutagenic.

The risk assessment indicates that dietary exposure is below the level of concern; it occupies less than 1 percent of population adjusted dosage (aPAD). Chronic non-cancer risks based on dietary exposure were below the level of concern. Occupational cancer risk with standard Personal Protective Equipment (PPE) was exceeded in a situation with non-automated seed treatment applications; the non-cancer chronic risks were not of concern. The use of treated seeds by growers and planters was below the level of concern.

The environmental fate characteristics of this chemical include moderate volatility, short soil half-life less than 1 week, low mobility in soils, and some potential for bioaccumulation in aquatic organisms. Initial risks assessments related to consumption of planted seeds by birds and mammals indicated potential for acute risks. However, more refined assessments indicated low potential for acute risks. Chronic risks could not be precluded. Seed label requirements include seed incorporation and proper coverage by soil to minimize exposure and chronic risks to bird and mammals. Tioxazafen has a low risk to pollinators due to the low acute toxicity and low dust -off potential.

Benefits of tioxazafen include a new mode of action for nematode control that provides a valuable tool for resistance management. The product formulated with a single active ingredient also facilitates it use compared to alternatives that are co-formulated with other active ingredients. The product also has a lower toxicity profile for non-targets compared to alternative products.

Tioxazafen was unconditionally registered by EPA. Occupational risks were mitigated by the requirement for use only in fully automated closed seed treatment facilities. Risk to non-target organisms was addressed by seed labeling requirements, including seed incorporation, to

1 Available in docket ID number EPA-HQ-OPP-2015-0215at www.regulations.gov

minimize access and exposure to treated seeds.

Given the use pattern in automated, closed seed treatment facilities, the groundwater protection regulations do not apply. Furthermore, leaching of residues from treated seeds is expected to be minimal due to low mobility and short soil half-life of the chemical.

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

1. Acceleron NemaStrike ST, EPA Reg. No. 524-624

Moved: Berman
Second: Wijnja
Approved: 4-0

MOTION TO ADJOURN THE MEETING

It was moved, seconded and passed unanimously.

VOTED
To adjourn the October 20, 2017 Subcommittee Meeting.

Moved: Berman
Second: Gooch
Approved: 4-0
Meeting adjourned at 9:40 a.m.