Active Ingredient: Flupyradifurone

Date: 2/24/2015 MT

## Groundwater Review for New Chemicals

Product contains a new active ingredient (first time product being licensed in Hawaii).

1) Product has Kd more than 5 (low laboratory-derived mobility) and low persistence characteristics (e.g. hydrolysis half-life less than 30 days at any pH or aerobic soil metabolism half-life less than 2 weeks). 0 points Kd = not given, Kf = 2.26, 1/n = 0.87

Product has Kd less than 5 (laboratory-derived mobility) or persistence characteristics (e.g. hydrolysis half-life greater than 30 days at any pH or aerobic soil metabolism half-life greater than 2 weeks) similar to other pesticides found in groundwater as a result of normal label uses. 15 points) Hydrolysis half-life: stable

Aerobic soil metabolism half-life = 79 days

- 2) Total acreage (all uses on EPA stamped approved labels containing the active ingredient) is less than 10,000. 5 points

  25,925 estimated acres (Mac nut 17,000) (crops: corn, sweet potato, tomatoes, watermelon, etc.)

  Total acreage (all uses on EPA stamped approved labels containing the active ingredient) is more than 10,000. 10 points
- 3) Application of the pesticide is made directly to the soil; or pesticide is systemic and acts by moving throughout the plant, including the roots. 10 points

Application of the Aerobic soil metabolism half-life = 79 days e drip line of a structure's roof, in our boxes of other protective devices to smeril chemical from the environment, to swimming pools, as a coating for a structure, or other use patterns where contact with soil is minimal. 0 points

35 points

If score is 30 points or higher at this point, request environmental fate data:

Analysis of chemical data shows that the pesticide is "likely" to leach in areas registered for use, or has groundwater labeling restrictions or advisories based on modeling using Attenuation Factors or charts reflecting the relationship between chemical properties and Hawaiian soils. 15 points

+15 points = 50 points total Analysis of chemical data shows that the pesticide is "unlikely". 5 points

**Review Action:** If there is a score of 45 or more: Submit for review and seek comments on classification: Options include: 1) do not license, 2) Annual Use Permit, or 3) licensed as restricted.

Score of less than 45: license product without a groundwater review.