## Patricia D. Hastings

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**Sent:** Tuesday, April 24, 2007 3:32 PM
**Subject:** Reduced Risk Status Granted to New Active Ingredient Chlorantraniliprole for Use on Apple, Lettuce, Peach, Pear, Tomato, and Turf

*Posting to weekly news item from EPA HQ courtesy of Audrey Moore, USEPA Region 2 Regional Ag Policy Specialist (*732-906-6809; Moore.Audrey@epamail.epa.gov)

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**Reduced Risk Status Granted to New Active Ingredient Chlorantraniliprole (E2Y45) for Use on Apple, Lettuce, Peach, Pear, Tomato, and Turf**

On April 3, 2007, the Reduced Risk Committee granted reduced risk status to DuPont's insecticide new active ingredient chlorantraniliprole (E2Y45) for use on apple, lettuce, peach, pear, tomato, and turf. E2Y45 is a member of the anthranilic diamide class of chemistry, and its mode of action is activation of the ryanodine receptor channels leading, to internal calcium store depletion. A list of the pests controlled and registered alternatives for the crops above is listed below. The mammalian toxicity profile is clearly favorable when compared to all registered alternatives across crops, and the ecotoxicity profile is likewise favorable when compared to many of the registered alternatives. It is hoped that E2Y45 will provide a reduced risk alternative to azinphos methyl and phosmet for apple and pear growers, and a new chemistry to work into resistance management strategies for vegetable crops (hopefully reducing the number of pyrethroid applications). The broad spectrum of pest control (compared to other newer chemistries) and short Restricted Entry Intervals should make the product attractive to growers.

Under the Pesticide Registration Improvement Act (PRIA), uses designated as "reduced risk" receive an expedited time frame for review. Review of this new active ingredient is being jointly coordinated between Canada, the European Union, Australia, and the United States.

Summary of Uses and Alternatives

| of action | Site | Pests Controlled | Registered Alternatives |
|---|---|---|---|
| on odine receptor ls | apple, pear | codling moth, Oriental fruit moth, leafrollers, tufted apple bud moth, leafminers | azinphos-methyl, phosmet, acetamiprid, methoxyfenozide, spinosad |
| | lettuce | beet armyworm, cabbage looper | spinosad, permethrin, zeta-cypermethrin, lambda-cyhalothrin, methomyl |
| | peach | codling moth, Oriental fruit moth, peach twig borer | esfenvalerate, phosmet, chlorpyrifos, Bt, permethrin |
| | tomato | tomato fruitworm, southern armyworm, beet armyworm, tomato pinworms, leafminers | Tebufenozide, Bt, \|methoxyfenozide, methomyl, emamectin, spinosad, cyfkuthrin |
| | turf | White grubs, black cutworm, sod webworm, fall armyworm, billbug, bluegrass weevil, chinch bug | imidacloprid, acephate, chlorpyrifos, carbaryl, fipronil, trichlorfon |

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