

## 44<sup>th</sup> ANNUAL FLORIDA PESTICIDE RESIDUE WORKSHOP

UPDATE ON STATE REGISTRATIONS:  
PESTICIDE REGISTRATION AND  
EVALUATION COMMITTEE (PREC)

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St. Pete Beach, Florida

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## Registration Section Activities (2007)

- STATUTORY MISSION: STATE LEAD AGENCY FOR THE REGISTRATION OF ALL PESTICIDES SOLD AND/OR DISTRIBUTED IN FLORIDA
- STATUTORY AUTHORITY: CHAPTER 487.041, F.S. & RULE 5E-2.031
- 18,839 PESTICIDE BRANDS REGISTERED
- 859 UNIQUE CHEMICAL ACTIVE INGREDIENTS
- 1,657 PESTICIDE REGISTRANTS
- \$3,726,950 FEES COLLECTED ANNUALLY

## Bureau of Pesticides Activities

- Product registration (USEPA – State)
- Risk assessments
- Monitoring/analysis
- Risk mitigation (Florida-specific)
- Coordination/outreach

## REGISTRATION REQUIREMENTS

- Pesticides sold and/or distributed in the U.S. must be registered by the U.S. Environmental Protection Agency (EPA)
- Pesticides sold and/or distributed in Florida **must also** be registered by the Florida Department of Agriculture and Consumer Services (FDACS)

## Risk Reduction Examples:

- Cancel registration
- Limit use to trained, certified applicators
- Limit amount, frequency, timing of use
- Spray drift labeling
- Worker protection measures
- Ground and surface water safeguards
- Reduction of residential/children risks

## REGISTRATION OPTIONS:

1. **Register Without Conditions**
2. **Register With Conditions**
3. **Deny Registration**

## FOOD QUALITY PROTECTION ACT

- 1996 Law Revamped FIFRA
- Creates a single health-based standard for all pesticides on all foods
- EPA must address all food tolerances (legally enforceable maximum level of pesticide residues) by 2006 !!

## Pesticide Registration Evaluation Committee (PREC)

•PREC implements review responsibilities and obtains input from involved FDACS staff and affected state agencies

•PREC is a technical coordination advisory committee that provides scientific feedback to FDACS



## PREC

- 1984 – Established by FDACS
- Non-Statutory
- Makes recommendations to the Department
- Obtains input from FDACS staff
- Obtains cooperative input from other affected agencies through establishment of MOUs (Memoranda of Understanding)

## PREC - Membership

- Bureau of Pesticides – Registration, Scientific Evaluation and Laboratory Sections
- Bureau of Compliance Monitoring – Case Review Section
- Division of Food Safety – Chemical Residue Laboratory
- Florida Department of Environmental Protection
- Florida Department of Health
- Florida Fish and Wildlife Conservation Commission

## PREC: ANNUAL EVALUATION ACTIVITIES (2006)

- |                              |    |
|------------------------------|----|
| ● Experimental Use Permits - | 13 |
| ● Significant New Uses -     | 6  |
| ● Emergency Exemptions -     | 5  |
| ● Special Local Needs -      | 6  |
| ● New Active Ingredients -   | 15 |
| ● Total -                    | 45 |

## PREC CHEMICAL RESIDUE EVALUATION

- **Proline 480 SC Fungicide (prothioconazole)**
- Registration of prothioconazole is requested for use on wheat, barley, pea and bean subgroup 6C, peanut and rapeseed (canola).
- **Tolerances**  
Tolerances have been established for all the labeled uses in 40 CFR 180.626
- **Residue Studies:**  
Residue studies were conducted for all the labeled uses. See attached table. Both residue and processing studies indicate that expected residues will be within the established tolerances.

## PREC CHEM. RESIDUE EVAL. CONT'D

- **Methods**  
Prothioconazole and its major metabolite prothioconazole desthio comprises 14 - 58% of expected residues. The tolerances and methods provided do not address any other possible residues.  
  
A method for canola seed, peas, peanuts, and wheat products was provided. The method, involving extraction with a methanol/peroxide/bicarbonate solvent converts the parent to prothioconazole sulfonic acid and its desthio metabolite. The two compounds are detected by LC/MS/MS. These two compounds are included in the tolerance expression for these crops.

## PREC CHEM. RESIDUE EVAL. CONT'D

- **Method Cont'd:**  
A method for bovine matrices was provided. The method, involving extraction with acetonitrile/water with L-cysteine hydrochloride, followed by hydrolysis with hydrochloric acid and partitioning into methylene chloride/acetone, screens for prothioconazole and its desthio and 4-hydroxy metabolites. The three compounds are detected by LC/MS/MS. These three compounds are included in the tolerance expression for animal products and milk.  
  
We do not have the resources in the Chemical Residue laboratory to validate these methods, however, we currently analyze several triazoles. If needed, it may be possible to add this compound to our routine multi-residue screen.

## PREC CHEM. RESIDUE EVAL. CONT'D

- **Standards**  
Chemical Residue has not received an analytical standard from the registrant.
- **Recommendation**  
Chemical Residue requests an analytical standard. Chemical Residue has no objection to the registration of Proline 480 SC Fungicide for the labeled uses.

## FLORIDA'S FINEST



## Where to Get More Information

<http://www.flaes.org/>

THANK YOU FOR THE INVITATION TO ATTEND YOUR ANNUAL WORKSHOP