Registration of Enlist Duo
March 10, 2015
Enlist Duo

• End-use herbicide product
• Developed by Dow AgroSciences LLC
• Contains:
  • 24.4% 2,4-D choline salt
  • 22.1% glyphosate
• To be used on Genetically Engineered (GE) crops:
  • Enlist™ Corn
  • Enlist™ Soybean
Multiple Agency Regulatory Decisions

Evaluates GE Seeds
(Enlist Corn and Soybeans)

Evaluates Pesticides
(Enlist Duo Herbicide)
Multiple Agency Regulatory Decisions

Evaluates GE Seeds
(Enlist Corn and Soybeans)

Evaluates Pesticides
(Enlist Duo Herbicide)
Registered October 15, 2014
Registration of Enlist Duo

• Technical Briefing
  • In conjunction with registration decision
  • Briefing and supporting documents available on: http://www2.epa.gov/ingredients-used-pesticide-products/registration-enlist-duo

• Risk assessments available in docket:
  • EPA-HQ-OPP-2014-0195
  • www.regulations.gov

• Regulatory strategy includes labeling and terms of registration
Labeling Elements

• Geographic Limitations
• Drift Reduction
• Resistance Management
Labeling Elements – Geographic Limitations

• Federal registration allows application in 6 states, pending state approval
  • IA, IL, IN, OH, SD and WI
  • ESA assessment reached “No Effect” determination for these states

• EFED continues to work on ESA for additional states
  • 10 additional states currently proposed
    • AR, KS, LA, MN, MO, MS, NE, OK, TN, and ND
  • ESA determination for remaining states expected by 2016
Labeling Elements – Drift Reduction

• No aerial application
• Wind speed restriction (<15 mph)
• Non-choline forms of 2,4-D not authorized for use with Enlist corn and soy
  • Also required in Dow’s grower agreement
• Nozzle Limitations
  • Nozzle selection chart
  • Only nozzles/pressures in chart permitted
Labeling Elements – Drift Reduction

• Tank Mixing restrictions
  • Continued testing of tank mix partners to determine drift properties
  • Dow to maintain website of acceptable tank mix partners (http://EnlistTankMix.com)
  • Label prohibits tank mixing with any product not on the list
  • Instructs grower to verify acceptability on website within 7 days before application

• 30-foot downwind in-field buffer zone to protect sensitive areas
  • Instructs applicator to measure wind direction
Labeling Elements – Drift Reduction

• Label defines what is NOT a sensitive area
  • Roads, paved or gravel surfaces
  • Areas covered by footprint of a building
  • Agricultural fields prepared for planting
  • Planted agricultural fields EXCEPT those listed in “Susceptible Plants” section
    • Commercial specialty or organic crops
      • Refers applicator to State’s sensitive crop registry, where available
  • No application if wind blowing toward adjacent fruiting vegetables, cucurbits, grapes, cotton
Labeling Elements – Resistance Management

• Label specifies resistance management practices
  • Scouting before and after application
  • Use of full label rates
  • Reporting any incidence of non-performance to Dow, retailer, or representative
• Remediation plan if suspected resistance occurs
  • Treatment with alternate mode of action
  • Non-chemical methods to remove escapes
Terms of Registration

• Part of Notice of Registration

• Time-limited registration
  • Expires 10/15/2019 if
    > 100,000 acres planted in 2015
  • Expires 10/15/2020 if
    ≤ 100,000 acres planted in 2015
Terms of Registration – Dow’s Requirements

• Tank mix testing conditions
  • Maintenance of tank mix website (http://EnlistTankMix.com)

• Annual reporting of grower survey results
  • Adherence to terms of grower agreement
    • Includes use of choline salt formulation

• Herbicide Resistance Management Plan
  • Laid out in detail in terms of registration
    • Specifics on grower agreements, field detection/remediation, education, evaluation, reporting, and best management practices
  • Submit copy of grower agreement and educational materials
For More Information:

http://www2.epa.gov/ingredients-used-pesticide-products/registration-enlist-duo

www.regulations.gov

Docket ID: EPA-HQ-OPP-2014-0195