

# Commercial Application of Seed Treatment

EPA Pollinator Summit  
March 5, 2013



# EQUIPMENT

- Batch & Continuous Treaters
  - Automatic pumping systems
- Defined Process Conditions
  - Treatment SOPs
  - Specific treatment recipes
  - Seed coat technology (polymers)
- Equipment Calibrations
  - Meter and scale calibration
- Air Handling/Dust Controls
  - Personnel and process safety
  - Clean seed prior to treatment
  - Dust controls post treatment



# QUALITY

- ISO 9001:2008 Certified
- Active Ingredients Loading
  - HPLC Instrumentation
- Established Dust-off Baseline
  - Heubach® Dust Meter
- New Product Introductions
  - Compatibility testing (active ingredient loading, plantability, dust-off)
- Labeling
  - Bags containing treated seed are labeled per FSA/FIFRA requirements



# DOWNSTREAM TREATMENT

- Custom Blend Treatment Service
  - Provide “tested” blended treatment to downstream treaters
  - Reduces risk of exposure and spills at retailer
- Qualified Treatment Facility
  - Seed Treater Qualification Agreement
- Downstream Application Guidelines
- Technical Support to Downstream Treaters



# PRODUCT LIFE CYCLE

- Disposal of Discarded Treatment & Treated Seeds
  - Use EPA approved and internally vetted disposal facilities
  - Disposal options are analyzed to select the best method
- Empty Container Pick-Up Service
  - 15+ gals containers for custom blends
  - Utilization of Ag Container Recycling Company (ACRC)

# KEY TAKE-AWAYS

- Properly Cleaned Untreated Seed
  - Seed is consistently cleaned prior to treatment application
- Consistent Seed Treatment Application
  - Active ingredients are metered to specific recipes
  - Controls in place for personal and product safety
  - Treatment equipment regularly maintained
- Active Quality Management System
  - Certified quality management program
  - Monitoring of seed treatment process
  - Proper labeling