

# Engenia®

Herbicide

## Effective Weed Management for Dicamba Tolerant Crops

### Successful Weed Management Requires a Plan

#### Key Strategies for Effective Weed Management Include:

- Identify the target weeds
- Include multiple, effective sites of action (SOA) to reduce the potential for developing weed resistance
- Use a good residual PRE herbicide like Zidua® PRO herbicide for soybeans
  - Preserves yield potential
  - Reduces weed pressure for better control with postemergence herbicides
  - More time to select the proper conditions for postemergence applications
- **Spray Engenia herbicide early**
  - 4" maximum weed height
  - **Target postemergence applications within 3 to 5 weeks after planting for soybeans or sooner for cotton**
  - Add a residual herbicide like **Outlook® herbicide** or **Zidua herbicide** for extended weed control

#### A Preemerg Residual Followed by Engenia® Herbicide Postemerg Preserves Yield Potential



PRE & POST (V3)



POST ONLY (V3)

PRE: Zidua PRO herbicide (6 fl oz), POST (V3): Engenia herbicide (12.8 fl oz) + glyphosate. POST ONLY (V3): Engenia herbicide (12.8 fl oz) + glyphosate. BASF Internal Trial (2016), Story City, IA. Photos taken 30 days after post application.



**Engenia herbicide is the most flexible and advanced dicamba for dicamba-tolerant crops**

**BASF**

We create chemistry

Technical Information Bulletin

# Engenia® Herbicide Application Stewardship

**Reducing risk of off-target movement and sensitive plant injury is a result of effective application stewardship. The advanced dicamba formulation of Engenia herbicide, along with proper application, can provide maximum broadleaf weed control and effectively minimize off-target potential.**

## Engenia is a U.S. EPA Restricted Use Pesticide (Additional State Restrictions May Apply)

- **Use Rate:** 12.8 fl oz/A
- **Application Timing:**
  - DT Soybeans: Preplant, Preemerge, POST (up to 45 days after planting or R1, whichever comes first)
  - DT Cotton: Preplant, Preemerge, POST (up to 60 days after planting or mid-bloom, whichever comes first)
- **Application Volume:** ≥ 15 GPA
- **Windspeed:** 3 to 10 MPH
- **Boom Height:** 24 inches or less above target
- **Sensitive Crops:** DO NOT spray if wind is blowing toward neighboring sensitive crops (like non-dicamba-tolerant soybeans) or residential areas
- **Buffer Zones:** Leave 110' downwind buffer to bodies of water and non-residential, uncultivated areas that may harbor sensitive plant species
  - Consult [www.epa.gov/espp](http://www.epa.gov/espp) or call 1-844-447-3813 and follow any county specific dicamba use restrictions for corresponding endangered species
- **Ground Speed:** ≤ 15 mph, recommend 5 mph on field edges
- **Use Only Approved Nozzles:** For a list of approved nozzles visit [www.engeniatankmix.com](http://www.engeniatankmix.com)
- **Tank Mixtures:** Visit [www.engeniatankmix.com](http://www.engeniatankmix.com) for a list of approved tank-mix partners and adjuvants
  - No acidifying water conditioners; DO NOT use ammonium additives (e.g., AMS, UAN)
- **Avoid Inversions:** DO NOT apply when temperature inversions exist at the field level
- **Daytime Spraying:** Only apply from 1 hour after sunrise until 2 hours before sunset
- **Training:** Complete annual dicamba or auxin specific training
- **Record Keeping:** Including application, planting date, buffer zone determination, and tank cleanout
- **Sprayer Cleanout:** Triple rinse, use a detergent-based commercial cleaner before and after application
- **Rain Free Interval:** DO NOT apply if expected rainfall within 24 hours after application will result in runoff
  - **Rainfast:** 4 hours

## Training and Education

Applicator training requirements vary depending on the state. Visit [www.engeniestewardship.com](http://www.engeniestewardship.com) for BASF resources on proper application according to label requirements. Proper nozzle selection, calibration, boom height, weather conditions, and the use of approved tank-mixtures are all addressed.

To learn more, go to: [www.engeniestewardship.com](http://www.engeniestewardship.com)

**BASF**  
We create chemistry

Turbo TeeJet® Induction TTI11004



To learn more about crop protection products from BASF, visit [www.agproducts.basf.us](http://www.agproducts.basf.us)

**Engenia®**  
Herbicide

**Engenia Herbicide is a U.S. EPA Restricted Use Pesticide. Additional state restrictions may apply.**

**Always read and follow label directions.** Engenia, Outlook and Zidua are registered trademarks of BASF. TeeJet is a registered trademark of TeeJet Technologies a subsidiary of Spraying Systems Company. ©2019 BASF. All Rights Reserved. APN# 1804005-Engenia-WeedManagement-2019