

# Blackhawk<sup>®</sup>

## For Use on Sweet Corn

### NATURALYTE<sup>®</sup> INSECT CONTROL

#### OVERVIEW

Blackhawk<sup>™</sup> is a novel, lignin-based, water-dispersible granule formulation containing 36% active ingredient on a weight basis. This new formulation slows the degradation of spinosad on the leaf surface, proving more consistent control than the SC formulations of spinosad under more variable conditions.

Spinosad, the active ingredient in Blackhawk, affects the insect nervous system at the nicotinic acetylcholine receptors, causing rapid excitation that leads to involuntary muscle contractions, prostration with tremors and final paralysis. To date, no other class of insecticide is known to affect the insect nervous system with the same mode of action.

#### Features and Benefits for Blackhawk<sup>™</sup>

- Works by contact and ingestion
- Fast acting, quick knockdown and extended residual control
- Very effective against Corn Earworm, European Corn Borer, Armyworms and more
- Group 5 insecticide - novel mode of action unique to the spinosyn class of chemistry
- Minimal impact on natural enemies - does not flare secondary pests
- Excellent fit in Integrated Pest Management programs
- Short Pre-Harvest and Re-Entry Intervals - 1 day grain harvest PHI
- Requires minimal Personal Protective Equipment
- Reduced Risk Pesticide
- Presidential Green Chemistry Award Winner



**Blackhawk<sup>™</sup> Naturalyte<sup>®</sup> insect control will provide excellent control of pests in sweet corn:**

- Corn Earworm
- European Corn Borer
- True Armyworm
- Beet Armyworm
- Southwestern Corn Borer
- Fall Armyworm
- Western Bean Cutworm
- Thrips<sup>1</sup>
- and more!

**Blackhawk<sup>™</sup> Naturalyte<sup>®</sup> insect control has been registered by the United States EPA for use on:**

- Corn
- Peanuts
- Tobacco
- Cotton
- Potatoes
- Pastures/Rangeland
- Soybeans
- Cereal Grains
- Sugar Beets

**Blackhawk<sup>™</sup> Naturalyte<sup>®</sup> insect control recommended rates:**

- European Corn Borer - 2.5 oz.
- Corn Earworm - 3.3 oz.

## Application Rates

Corn (field, sweet, popcorn, seed corn) and Teosinte

PESTS	Blackhawk™ (oz/acre)
European corn borer	
fall armyworm	1.67 – 3.30
true armyworm	
beet armyworm	
corn earworm	2.20 – 3.30
southwestern corn borer	
western bean cutworm	

## Restrictions

Sweet Corn, Popcorn, Seed Corn

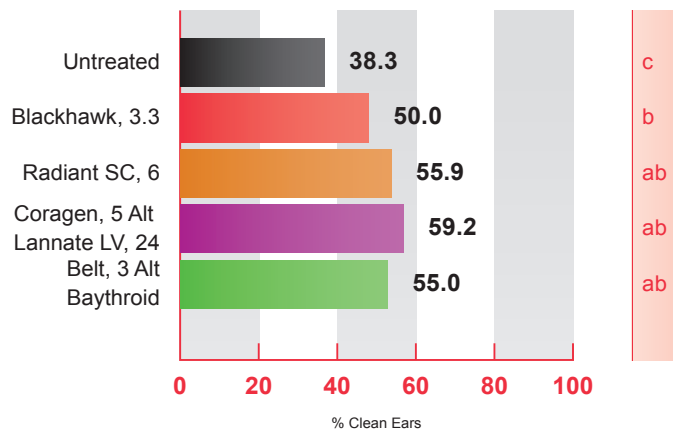
- **Pre-harvest Interval:** Do not apply within 28 days of fodder harvest, 1 day of grain harvest or 7 days of forage harvest
- Do not apply more than a total of 20 oz of Blackhawk™ (0.45 lb a.i. of spinosad) per acre per year
- **Maximum Number of Applications:** Do not make more than six applications per calendar year
- Do not make more than two consecutive applications of Group 5 insecticide

## Application Timing

Sweet Corn, Popcorn, Seed Corn

- Scout for European corn borer and armyworms with enough regularity to monitor egg laying and egg hatch.
- Time applications of Blackhawk™ to coincide with peak egg hatch of each generation. Frequent treatments may be necessary when the crop is growing rapidly, during silking or under heavy pest pressure
- **For Corn Earworm Control:** a 1-to-2-day re-treatment schedule may be necessary at silking
- **For All Other Pests:** a 5-to-7-day re-treatment schedule may be necessary if the crop is growing rapidly or if there is heavy pest pressure

## Blackhawk™/ S. Corn/ CEW / Univ. of Delaware



## Blackhawk for Corn Earworm Sweet Corn Sparks, U Georgia 2011

