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New Innovations from Syngenta

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Introducing: Victrato Seed Treatment



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Overview

- **Active ingredient** – TYMIRIUM[®] technology (cyclobutrifluram)
- **Mode of Action** – FRAC 7 SDHI
- Provides protection against **a broad spectrum of nematode pests and diseases in soybeans and cotton**



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 **Victrato[®]**
TYMIRIUM[®] technology

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Soybean Label

Protection From the Following Pests:

- Sudden Death Syndrome (*Fusarium virguliforme*)
- Plant parasitic nematodes
 - Soybean Cyst
 - Root Knot
 - Reniform
 - Lesion
 - Lance
- Suppression of Red Crown Rot (*Calonectria ilicicola*)
- Early-Season Suppression of Foliar Diseases
 - Septoria Brown Spot (*Septoria glycines*)
 - Frogeye Leaf Spot (*Cercospora sojina*)
 - Target Spot (*Corynespora cassiicola*)

Rate:

- 0.075 mg ai/seed
- 50g ai/100kg soybean seed
- 0.714 fl oz/140K
- Assumes 3,000 seeds/pound

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PLINAZOLIN[®] technology

Technical Overview

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Classification: Public; Not for Distribution

Profile

- Active ingredient: Isocycloseram
- Chemical class: Isoxazoline
- MOA classification: Group 30
- REI: 12 hours
- Formulation type: Soluble concentrate (SC)
- Signal word: None
- **Mammalian toxicity**
 - **Acute oral:** Category IV
 - LD50 > 5000 mg/kg
 - **Acute dermal:** Category IV
 - LD50 > 5000 mg/kg
 - **Acute inhalation:** Category IV
 - LC50 > 5.13 mg/L



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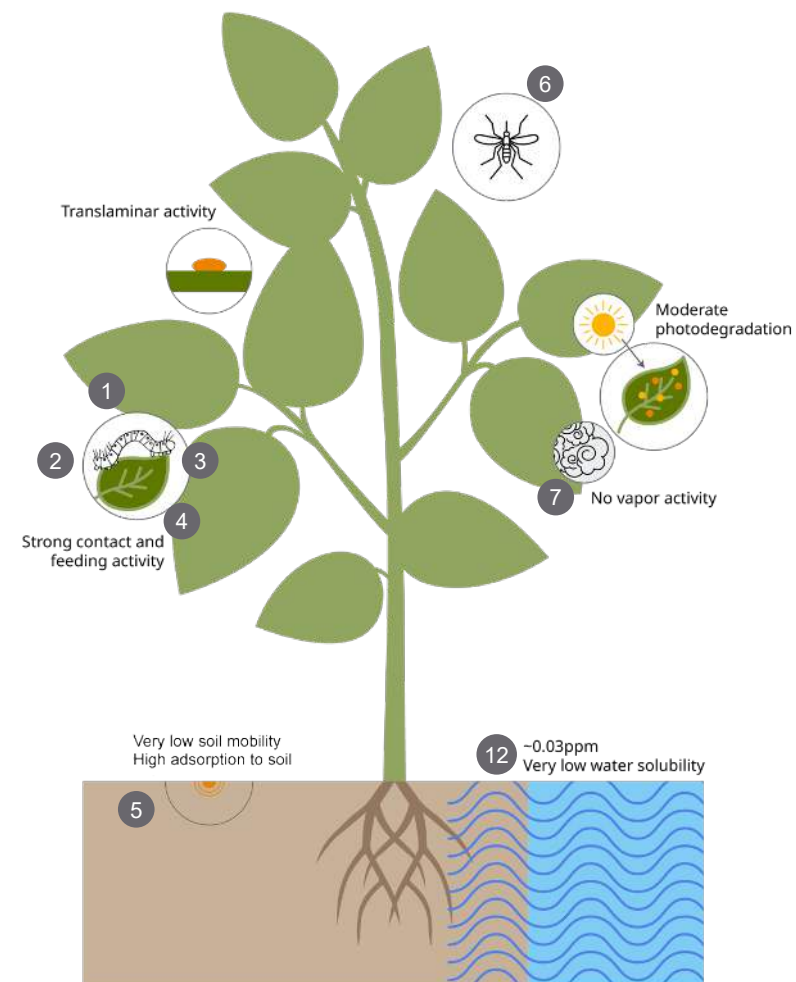
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 **Vertento**®
PLINAZOLIN® technology

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Summary of Properties

1. Stays on leaf surface
 - Some translaminar movement
2. Acts via contact and ingestion
3. Novel mode of action
 - Resistance breaker IRAC Group 30
4. Rapid feeding cessation
 - Insect mortality in 1-4 days
5. Control
 - Reliable residual effect
6. Protection in the root zone
 - Strong binding to soil particles
7. Broad spectrum
 - Controls many different insects and mites
8. Crop safety
 - None of the formulations showed phytotoxicity
9. UV stability
 - Slow degradation on the leaf surface
10. Low volatility
 - No vapor effect
11. Resist rain washing
 - All formulations stick well to leaf surfaces and are not washed off
12. Low water solubility
 - No systemic uptake into the roots or movement within the leaf when applied to the foliage



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PLINAZOLIN Technology Family of Brands: Brand Strategy



Cotton: Plant bugs
Soybeans: Stink bugs
Peanuts: Mites
Onions: Thrips



Brassica: Diamondback moth, cabbage looper, imported cabbageworm
Leafy: Cabbage looper, diamondback moth, thrips
Fruiting veg: Armyworm, tomato fruitworm, pepper weevil
Cucurbits: Melonworm, pickleworm, squash bug



Corn SAI: Corn rootworm, white grubs, wireworm



Citrus: Asian citrus psyllid, citrus leafminer, citrus thrips
 Diaprepes root weevil, mites
Pome/Stone: Codling moth, obliquebanded leafroller, Oriental fruit moth, plum curculio, pear psylla, thrips, mites
Tree Nuts: Mites
Potatoes: Colorado potato beetle

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