



ISK product introductions

Christopher Gee, Ph.D.

Director of Product Development ISK Biosciences Concord, Ohio

IR4 projects with ISK



CYCLANILIPROLE MINOR USE PROJECTS		
PR# 11894	Lepidotera, thrips on GH tomato	
PCR# 12515	Lepidoptera on GH lettuce	
PR# 11952	Artichoke Plume Moth on artichoke	
PR# 12264	Head Moth/nymphal plant bugs on sunflower	
PR# 11570	Lygus on safflower	

FLONICAMID MINOR USE PROJECTS		
PR# 11705	Aphids on GH lettuce	
PR# 11383	Lygus on sunflower	
PR# 11966	Sucking insects on prickly pear	
PR# 12283	Aphids and whiteflies on pomegranate	
PR#11969	Aphids on highbush blueberry	
PR# 11970	Aphids on sweet corn	

PYRIOFENONE MINOR USE PROJECTS		
PR# 11446	PM on GH cucumber	
ISOFETAMID MINOR USE PROJECTS		
PR# 12000	Cylindrocarpon on ginseng	
FLUAZINAM MINOR USE PROJECTS		
PR# 12480	Anthracnose on papaya	



Pyriofenone



ISO name: pyriofenone

Trademarks: Prolivo, Property, Kusabi

MoA: Likely actin disrupter

FRAC Group: 50 (FRAC medium risk for resistance)

Activity: Preventive, locally systemic, moves in vapor phase

Registrations: USA, Canada, Mexico, EU, Japan, Australia



ISO name: Pyriofenone

Crops registered: Cucurbit vegetables, berry and small fruit (except 13-07C), fruiting vegetable (submitted)



High level of activity against powdery mildews

Vapor phase redistribution

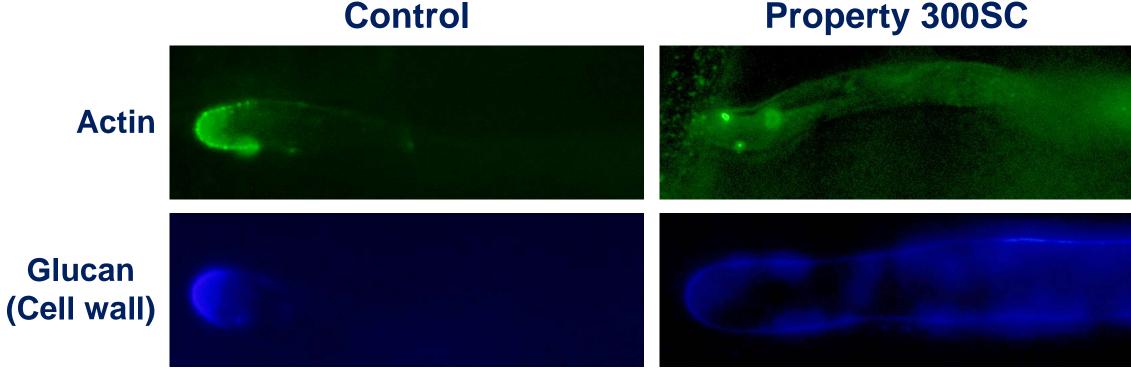
Good fungicidal properties



Cytological changes of B. graminis

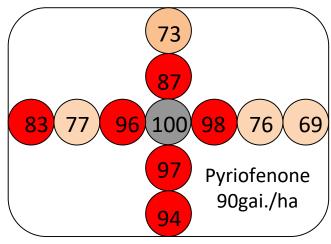
Actin disruption (FRAC code: 50)

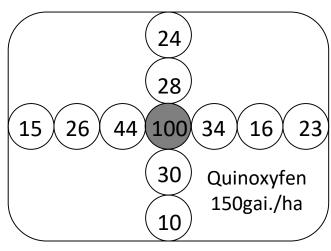
Property 300SC





Vapor activity on plant





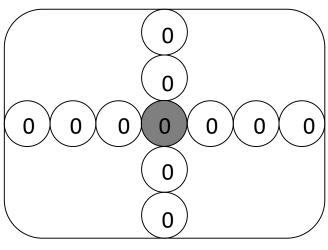




: CV. more than 90%

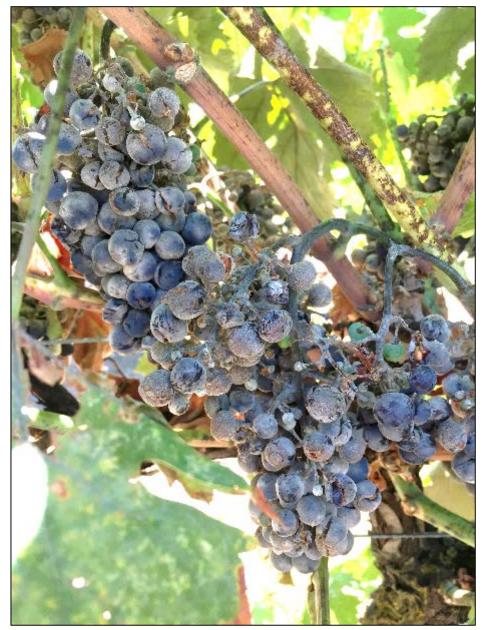
: CV. more than 50%

: CV. less than 50%

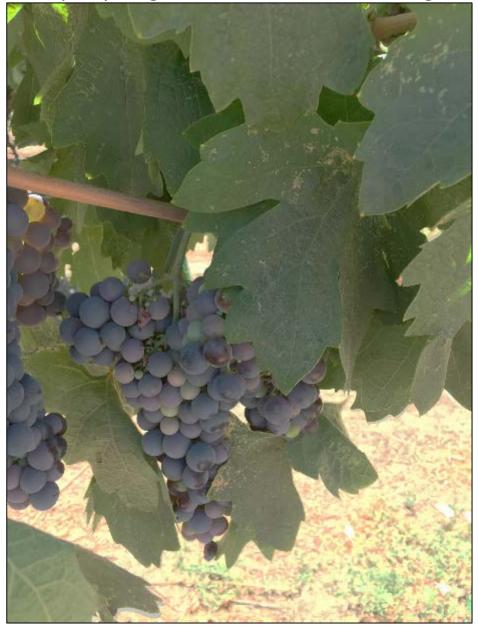


Untreated Control

Control



Property 90 g ai/ha + Cohere 4 fl oz/100 gal



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Harvanta 400SC

Cyclaniliprole

CYCLANILIPROLE

Mode of Action: Ryanodine receptor modulator

IRAC Group 28

- Anthranilic diamide
- Not Systemic

Spectrum of activity: broad

- Highly effective against Lepidopteran, Dipteran, and Coleopteran pests at low use rate
- Long residual activity

Minimal impacts on beneficial arthropods

Reduced risk

New option for pest management programs

Excellent fit with IPM/IRM programs

GROUP 28 INSECTICIDE





CYCLANILIPROLE

Has been or will be labeled for key pests of:

- Pome Fruits
- Stone Fruits
- Tree Nuts
- Grapes
- Berry and Small Fruits
- Fruiting Vegetables
- Brassica Leafy Vegetables
- Leafy Vegetables
- Cucurbits
- Root and Tuber Vegetables
- Turf
- Ornamentals

Verdepryn 100SL

- Harvants 50SL





Flazasulfuron



- Development Code: SL-160
- CAS Number: 104040-78-0
- Developer Company: Ishihara Sangyo Kaisha, Ltd.
- Mode of Action: ALS/AHAS Inhibitor WSSA Group 2 (HRAC Class B)
 - Inhibition of acetolactate/acetohydroxyacid synthesis (amino acid synthesis inhibitor).
- Formulation: SL-160 25 WG (250 gram ai per kilogram of formulated product).



- General Use Information:
 - Postemergence Activity: selective activity on both broadleaf and grass weeds.
 - Apply to weeds 2 to 4 inches tall no taller than 4 inches and/or prior to first tillering for grasses.
 - Preemergence Activity: selective activity on both broadleaf and grass weeds.
 - Rainfall or irrigation, within 2 weeks after application, is needed for activation of preemergence activity.



Crop Uses:

- Citrus (Navel & Valencia Orange, Lemon, Mandarin, and Tangerine).
- Conifers and ²Forestry (Container and Field Grown; Ornamentals, Christmas, Conifer Release, and Forestry).
- Grape (Wine, Table, and Raisin).
- IVM & Nonagricultural Areas
- Tree Nut (Almond, Hazelnut, Pecan, Pistachio, and Walnut Black and English).
- Turf (Established stands of bermudagrass, buffalograss, centipedegrass, seashore paspalum, and zoysiagrass).
 - Warm-season grasses such as argentina bahiagrass, carpetgrass, and St. Augustinegrass are not tolerant.
 - Cool-season grasses such as bentgrass, fescue, Kentucky bluegrass, and ryegrass are not tolerant.