

FLUTIANIL

Fungicide Product name: GATTEN®



2019 IR-4 Workshop



Flutianil, Characteristics

- New chemical group : cyano-methylene thiazolidine
- Effective in controlling powdery mildew
- Novel Mode of Action against powdery mildew (FRAC Code U13)
- No Cross-Resistance with other chemical classes



Regulatory Information

US

- Reduced risk status granted for all of the registered crops
- Approval: Registration granted March 2018
- Registered crops: Apple, Cantaloupe, Cherry, Cucumber, Grape, Squash, and Strawberry.
- Pending label expansion: Cucurbits Group 9, Cherry Subgroup 12-12A, Berry, low growing subgroup 13-07G, Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F, hops.

Canada

- Submitted application to PMRA for Cucurbits Crop Group 9, Cherry Subgroup 12-09A and Fruit, small, vine growing, except fuzzy kiwifruit, subgroup 13-07F.
- Import tolerance submission for Apples and Strawberries.

Japan

Registered on Eggplant, Cucumber, Pumpkin and Squash, Watermelon, Melons, Strawberry, Zucchini, Tomato, Peas, Flowers and Ornamental plants, and Trees and Shrubs.

Korea

Registered on Green & Red pepper (Fresh), Strawberry, Watermelon, Cucumber, Korean melon, and Sweet pepper

EU

- Approval: Annex I granted April 2019
- Approved crops: Grapes and Flowers and Ornamental plants

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US Label

- **Type:** Fungicide
- Product Name: GATTEN®
- Active ingredient: Flutianil
- Formulation: 5% EC
- Use rate: 0.04 lb ai/acre (0.01-0.05 lb ai/acre global)
 - ➤ Note: 0.01 0.02 lb ai/A is new targeted use rate in US
- Application: 4-5 times per season, 7 day interval
- **PHI:** 0-14 days
- Crops: Apple, Cantaloupe, Cherry, Cucumber, Grape, Squash, and Strawberry
 - > All granted reduced risk status
 - > Pending label expansion for crop groups/subgroups and hops.

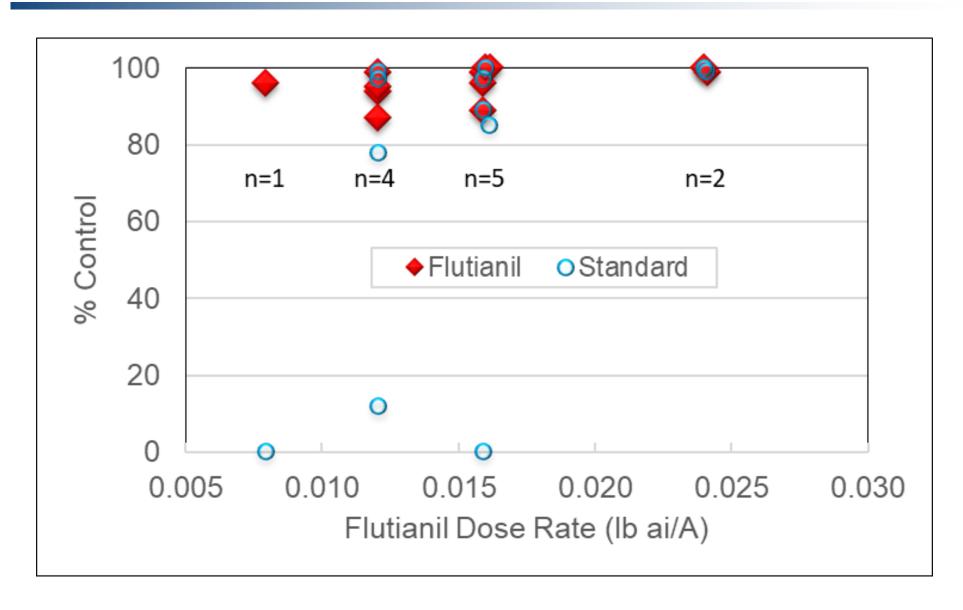


US Label Expansion

- Label Expansion Pending with the EPA (Submitted 12/2018)
 - Cucurbit Crop Group 9
 - Cherry Subgroup 12-12A
 - ➤ Berry, low growing subgroup 13-07G
 - > Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F
 - > Hops
- Current IR-4 Studies Lettuce (incl. GH), Peach, Cucumber (GH part of GMUS) and possibly Rosemary and Sage (IR-4 efficacy studies on-going)
- IR-4 on-going studies to be submitted when complete.

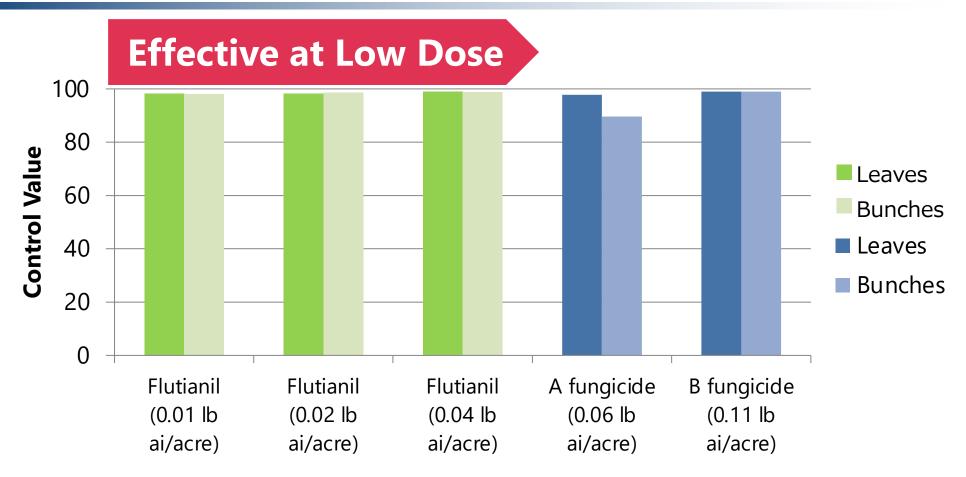


Field Performance on Grape (US)





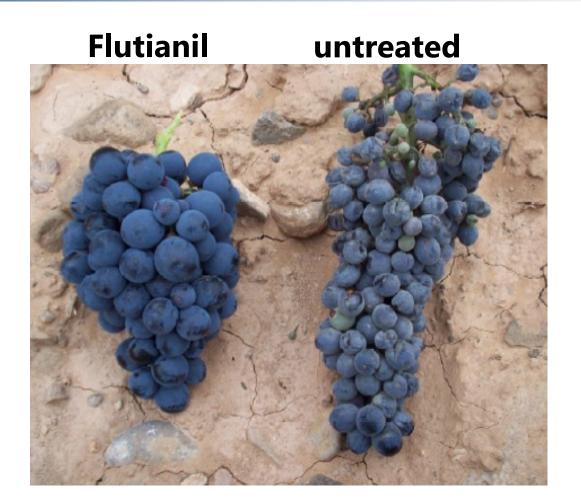
Erysiphe necator on Chardonnay Grape



- Location: Italy
- Four applications, targeted for every 10 days until color change
- Assessment was determined at 11 (leaves) and 10 (bunches) days after the last application
- Application: 1 6/28/11, 2 7/9/11, 3 7/20/11, 4 7/31/11



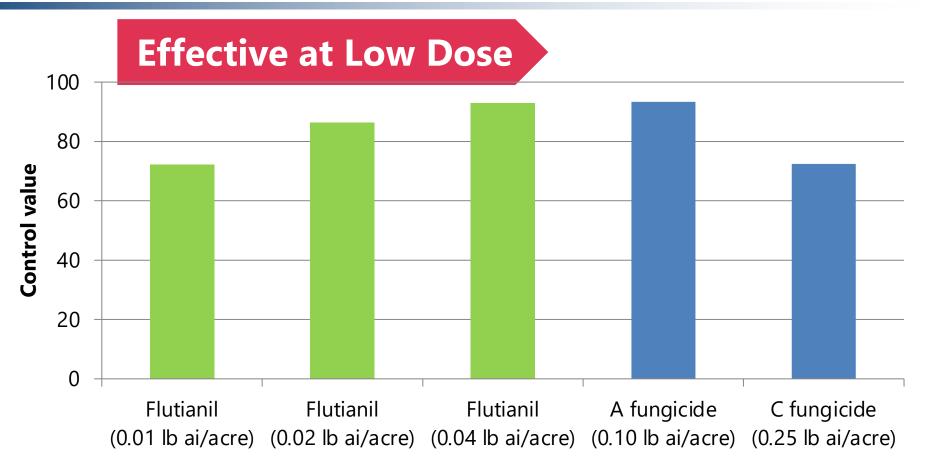
Uncinula necator on Grapevine



- Location: Spain
- Application: June 6, 19, July 1, 15, 30, 2008



Podosphaera xanthii on Leaves of Yellow Squash



- Location: Raleigh, NC
- Five applications targeted at 7 days intervals
- Assessment was determined at 7 days after the last application
- Application: 1 7/27/2011, 2 8/3/2011, 3 8/10/2011, 4 8/17/2011, 5 8/24/2011

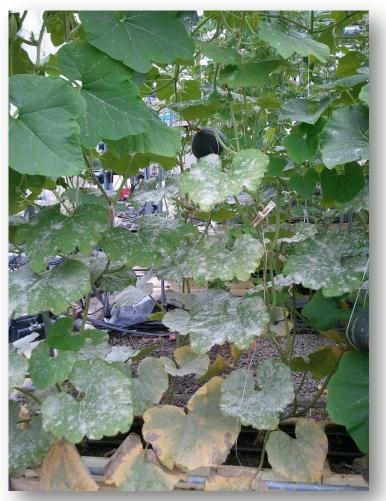


Sphaerotheca fuliginea on Squash

0.03 lb ai/acre Flutianil



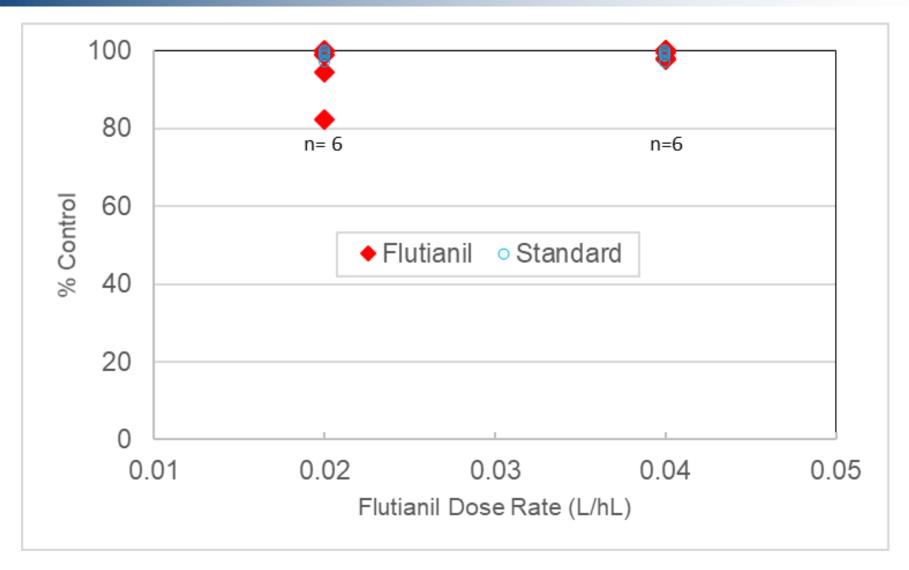
untreated



- Location: Tokushima, Japan, OAT AGRIO
- One application targeted, Assessment was determined at 25 days after application
- Application: 1 6/18/2012



Field Performance on Non-woody Ornamentals (EU)



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Summary

- Effective in controlling powdery mildew
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Thank you

