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Registration Decision

RD2022-03

# Flutianil and GATTEN

*(publié aussi en français)*

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## Registration decision statement<sup>1</sup> for flutianil

Health Canada's Pest Management Regulatory Agency (PMRA), under the authority of the *Pest Control Products Act*, is granting registration for the sale and use of Flutianil Technical, and GATTEN, containing the technical grade active ingredient flutianil for control of powdery mildew on cherries (Crop Subgroup 12-09A), cucurbit vegetables (Crop Group 9) and grape.

This decision is consistent with the Proposed Registration Decision PRD2021-09, *Flutianil and GATTEN*, which contains a detailed evaluation of the information submitted in support of this registration. The evaluation found that, under the approved conditions of use, the health and environmental risks and the value of the pest control product(s) are acceptable. See Appendix I for a summary of comments received during the consultation process as well as Health Canada's response to these comments.

### Other information

The relevant test data on which the decision is based (as referenced in PRD2021-09, *Flutianil and GATTEN*) are available for public inspection, upon application, in the PMRA's Reading Room. For more information, please contact the PMRA's Pest Management Information Service.

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<sup>1</sup> "Decision statement" as required by subsection 28(5) of the *Pest Control Products Act*.

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## Appendix I    Comments and responses

### Comment related to the mode of action for flutianil

#### Comment:

The applicant requested the PMRA consider that flutianil is not in the same mode of action (MOA) as pyriofenone and remove the statement “Recently, cucurbit powdery mildew strains were observed to possess cross-resistance towards flutianil and pyriofenone.” from the mode of action section of the PRD2021-09. The applicant cited the following published papers in support of their request:

- Miyamoto, T. et al., Eur J Plant Pathology 156, 953-963 (2020)
- Kimura, S. et al., J. Pestic. Sci. 45 (4), 206-215 (2020)
- Kimura, S. et al., J. Pestic. Sci. 46 (2), 206-213 (2021)

#### PMRA response:

Upon review of the request, the PMRA has concluded that the statement about the cross-resistance to flutianil and pyriofenone in PRD2021-09 is incorrect.

During the initial review of Miyamoto et al. (2020), the observations that (1) all sampled strains in all sampling locations were either resistant to both flutianil and pyriofenone or sensitive to both fungicides, (2) high resistance or medium resistance to both products was always linked, and (3) both forms of resistance have a low fitness cost and were not found to be individually lost in any strain, suggested cross-resistance to the two fungicides. Upon further consideration and review of Kimura et al. (2020 and 2021), the PMRA agrees with the applicant that the most plausible explanation for resistance observed to both flutianil and pyriofenone in strains of *Podosphaera xanthii* is multiple resistance and not cross-resistance.