 Fluazinam

Fluazinam is a pyridinamine fungicide that can control blight caused by *Phytophthora infestans* in potatoes, beans and other crops (e.g., bushberries, edible-podded beans and cruciferous vegetables such as cabbage and broccoli). Fluazinam has strong persistence of effect against blight and can suppress secondary infection in the field through inhibition of sporulation. Fluazinam has been widely used in the U.S. since the 1990s. Fluazinam is not registered for use in California. Exposure in California would occur mainly through crops imported from other states.

Fluazinam passed the animal data screen, underwent a preliminary toxicological evaluation, and is being brought to the Carcinogen Identification Committee for consultation. This is a compilation of the relevant studies identified during the preliminary toxicological evaluation.

**Epidemiological data**

No cancer epidemiology studies were identified.

**Animal carcinogenicity data**

- 104-week feeding studies
    - Increased in thyroid gland follicular cell adenomas (by trend), carcinomas (by trend), and adenomas and carcinomas combined (by pairwise comparison and trend) in males
    - No treatment-related tumor findings in females
    - Increases in hepatocellular adenomas, carcinomas, and combined adenomas and carcinomas (by pairwise comparison and trend) in males
    - Increases in hepatocellular adenomas and carcinomas combined (by pairwise comparison) in females

**Other relevant data**

- Genotoxicity
    - *Salmonella* reverse mutation assays, multiple strains (negative)
    - *B. subtilis* growth/ killing inhibition assays, strains H17(rec+) and M45(rec-) (negative)
- Chromosomal aberrations in Chinese hamster lung fibroblast cells in vitro (negative)
- ICR (Crj:CD-1) mouse bone marrow micronucleus assay in vivo (negative)

Reviews


References


1 Excerpts or the complete publication have been provided to members of the Carcinogen Identification Committee, in the order in which they are discussed in this document.