

***Pseudozyma flocculosa* strain PF-A22 UL (119196) Fact Sheet**

Summary

Pseudozyma flocculosa strain PF-A22 UL is a naturally occurring fungus that can be used for controlling powdery mildew (which is also a fungus) on roses and cucumbers grown in greenhouses. Products containing this active ingredient are expected to cause no harmful effects to humans or the environment when used according to label directions.

I. Description of the Active Ingredient

Pseudozyma flocculosa strain PF-A22 UL was initially isolated in Ontario, Canada from red clover leaves infected with powdery mildew. This active ingredient kills nearby powdery mildew cells by releasing fatty acid substances that destroy the mildew membranes. *Pseudozyma flocculosa* strain PF-A22 UL is widely distributed in the United States and Canada as well as in Europe. It primarily affects powdery mildews but has been found with other fungi on leaf surfaces.

II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Roses and cucumbers in greenhouses
- **Target Pests:** Powdery mildew
- **Application Methods:** The single end use product is sold in liquid form, which is then diluted with water and sprayed on foliage weekly when disease appears or when conditions favor disease development.

III. Assessing Risks to Human Health

No harmful health effects to humans are expected from use of *Pseudozyma flocculosa* strain PF-A22 UL. Given that use is limited to greenhouses, exposure to the public will be minimal to non-existent. Tests with laboratory mammals found no infectivity, or oral or dermal toxicity. Given these results, no harm is expected if humans eat food containing residues of *Pseudozyma flocculosa* strain PF-A22 UL. Studies showed some lung effects and eye irritation in tested animals, but workers will avoid these exposures by using personal protective equipment (PPE).

IV. Assessing Risks to the Environment

No environmental effects are expected, given that pesticide products containing *Pseudozyma flocculosa* strain PF-A22 UL are approved for use only in greenhouses, and that the active ingredient occurs naturally in the environment. No adverse effects on non-target species have been reported.

V. Regulatory Information

The United States and Canada jointly reviewed the information for this active ingredient and its products. In the United States, *Pseudozyma flocculosa* strain PF-A22 UL was registered (licensed for sale) in September 2002 as a pesticide active ingredient. As of September 2002, the one end use product was SPORODEX L Biological Fungicide.

The registration is temporary and will expire on September 30, 2004, unless the registrant provides 1) additional required information about product stability under recommended storage conditions and 2) a satisfactory pulmonary infectivity/toxicity study. After EPA has reviewed these studies, it will decide whether to grant a registration without an expiration date.

VI. Registrant Information

U.S. Agent

Ms. Amy Roberts
Technology Sciences Group, Inc.
1101 17th St. NW, Suite 500
Washington, DC 20036-4704

Registrant

Ms. Jennifer Hale
Plant Products Co.
Brampton, ON L6T 1G1
Canada

VII. Additional Contact Information

[Ombudsman, Biopesticides and Pollution Prevention Division](#) (7511P)
Office of Pesticide Programs
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460