

Polyoxin D Zinc Salt (230000) Fact Sheet

Summary

Polyoxin D Zinc Salt is used as a fungicide for turf on golf courses, parks, home lawns, and the grounds of commercial and institutional buildings. Given the lack of toxicity and limited use sites, this active ingredient is not expected to harm people, pets, wildlife, or the environment when used according to label directions.

I. Description of the Active Ingredient

Active Ingredient Name: Polyoxin D Zinc Salt

OPP Chemical Code: 230000; (CAS# 146659-78-1)

Polyoxins are a family of chemicals produced by a specific bacterium naturally found in soil. The bacteria are grown commercially, and the polyoxins are then purified in the form of Polyoxin D Zinc Salt. This active ingredient inhibits the action of an enzyme needed by the target fungi for making chitin, a component of the cell wall. Without chitin, susceptible fungi are unable to continue growing and infecting plant cells.

II. Use Sites, Target Pests, And Application Methods

- **Use Sites:** Turf and lawns that are not intended for commercial use as sod, commercial seed production, or research.
- **Target pests:** The fungus species *Rhizoctonia solani*, which causes brown patch and large patch disease.
- **Application Methods:** Applied as a spray every one to two weeks, as needed.

III. Assessing Risks to Human Health

Based on required toxicity tests, no risks to humans are expected when products containing this active ingredient are used according to label directions.

IV. Assessing Risks to the Environment

There was no toxicity to land mammals, insects, or birds in various tests. The product label reflects the concern for possible harm to freshwater invertebrates and fish by prohibiting the use or disposal of Polyoxin D Zinc Salt in bodies of water.

V. Regulatory Information

Year registered (licensed for sale) as active ingredient: 1997

Number of end products, January 2001: 1

VI. Registrant Information

Kaken Pharmaceutical Co., Ltd., Japan

U.S. Contact: Dr. Premjit P. Halanker

Tomen Agro, Inc.

Suite 1610

100 First Street

San Francisco, CA 94105

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