

Diallyl sulfides (DADs) (129087) Fact Sheet

OPP Chemical Code: 129087; (CAS # 7758-11-4)

Summary

This active ingredient is commonly found compound in onions and garlic, and seems also to help control white rot disease on onions, garlic and leeks. DADs are intended for use in the manufacturing of pesticide products intended to control white rot in onions, garlic and leeks. When used according to label directions, this active ingredient is not expected to harm people or the environment.

I. Description of the Active Ingredient

DADs are naturally occurring compounds found in Allium crops, including onion and garlic and are partially responsible for the distinctive odor of garlic. The end-use product, Alli-Up® is proposed for use as a soil fumigant solution for the control of white rot in onions, garlic, shallots and leeks. Application is recommended for any field that shows evidence or has a history of white rot infestations. When applied to infected soils in conjunction with a rotational crop, DADs will mimic the presence of an Allium crop, which will in turn stimulate the germination of white rot spores. The germinated spores will subsequently perish since no host crop is present.

II. Use Sites, Target Pests, And Application Methods

- **Use Sites:** Onions, garlic, shallots and leeks.
- **Target pests:** White rot (a fungal disease).
- **Methods of Application:** Alli-Up™ is applied as a as a soil fumigant solution at a rate of half (1/2) to one gallon per acre using an enclosed conventional soil fumigation equipments (shanking system).

III. Assessing Risks to Human Health

Based on the known properties of this naturally occurring compound and the results of toxicity tests conducted on the end-use product, no risks to human health are expected from exposure to this fungicide.

IV. Assessing Risks to the Environment

DADs are a naturally occurring compounds found in onions and garlic and are partially responsible for the distinctive odor of garlic which helps repel most non target organisms. Moreover, the usage of Alli-Up™ as a soil fumigant reduces the exposure of most terrestrial and aquatic organisms. Furthermore, the low toxicity, and mitigating label language help minimize any risk to wildlife.

V. Regulatory Information

Year active ingredient was initially registered: May, 2003

Number of end-use products: 1 (Alli-Up™)

VI. Registrant Information

Platte Chemical Co.
P.O. Box 667
Greeley, CO 80832

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