

Linalool (3,7-Dimethyl-1,6-octadien-3-ol) (128838) Fact Sheet

Summary

Linalool is found naturally in a variety of plants, flowers and spices. As a pesticide, Linalool is intended for use indoors to control pests (fleas and ticks) on pets and the spaces they inhabit by affecting the insect's nervous system. Linalool is also used as an outdoor mosquito inhibitor. Currently, there are 16 registered products containing Linalool as an active ingredient. Based on available information, EPA has determined that Linalool has no adverse effects on humans or the environment.

I. Description of the Active Ingredient

Linalool (3,7-dimethyl-1,6-octadien-3-ol) is a terpenoid alcohol found naturally in a variety of plants, flowers and spices. As a pesticide, Linalool is intended for use indoors to control pests (fleas and ticks) on pets and the spaces they inhabit by affecting the insect's nervous system. Linalool is also used as an outdoor mosquito inhibitor. Because of its flavorful and fragrant properties, Linalool has non-pesticide uses and it is added to processed food and beverages, perfumes, cosmetics and soaps as well as to household detergents and waxes. The Food and Drug Administration considers Linalool to be generally recognized as safe (GRAS) as a synthetic flavoring substance and adjuvant in food for human consumption (21 CFR 182.60) and as an ingredient in animal drugs, feeds and related products (21 CFR 582.60).

II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Indoor residential carpets and surface spray or powder and to dogs and cats as a spray, dip, shampoo or mousse. Outdoor residential use sites as a scent generator and as scented candles to inhibit mosquitoes.
- **Target pests:** fleas, mites, spiders, ticks and mosquitoes.
- **Application Methods:**
 - Pets: Applied directly to pets as an aerosol and non- aerosol spray, powder, dip and mousse as needed.
 - Outdoor Residential Mosquito Inhibitor: Applied as a scented candle or a scent generator as needed.

III. Assessing Risks to Human Health

EPA's determination of whether a substance poses a risk to humans or other organisms depends on two factors. First, the Agency considers the toxicity of the test substance.

Second, EPA considers the amount of test substance that an organism may be exposed to. The EPA considers each of these factors when making a risk determination for a pesticide.

Based on human hazard and exposure assessments, anticipated risk is not likely to result in unreasonable effects to human health when products containing Linalool are used in accordance with the label.

IV. Assessing Risks to the Environment

Available studies and risk assessments show that Linalool is not likely to result in unreasonable risk to non-target organisms or the environment when products containing Linalool are used in accordance with the label.

V. Regulatory Information

Currently, there are 16 registered products containing Linalool as an active ingredient. There are two Manufacturing-Use Products (MUPs):

Technical Linalool / EPA Reg. Number 4758-150: Registered on March 15, 1985 by Pet Chemicals and transferred to Wellmark International on March 23, 2006 and issued new EPS Reg. Number 2724-762.

Mosquito-L / EPA Reg. Number 52991-13: Registered on January 10, 2000 by Bedoukian Research Inc.

There are 14 end-use products of which 12 pet products are registered by Wellmark International and 2 outdoor mosquito inhibitor products are registered by BioSensory Inc

VI. Registrant Information

Wellmark International
1501 E. Woodfield Road, Suite 200 West
Schaumburg, IL 60173

Bedoukian Research Inc.
21 Finance Drive
Danbury, CT 06810

Biosensory Inc.
Belding Mill Complex

107 Providence St.
Putnam, CT 06260

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