

# 3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester (IR3535) (113509) Fact Sheet

## Summary

The active ingredient can be used as an insect repellent against mosquitoes, deer ticks, body lice, and biting flies. Products containing this active ingredient are applied to exposed human skin. No harmful effects to humans or the environment are expected from this use of 3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester.

## I. Description of the Active Ingredient

3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester is structurally related to  $\beta$ -alanine, which occurs naturally. The active ingredient is a liquid at room temperature. OPP Chemical Code: 113509 (CAS # 52304-36-6)

## II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Human skin.
- **Target Pests:** Mosquitoes, deer ticks, body lice, and biting flies.
- **Application Methods:** Apply product to skin according to label directions.

## III. Assessing Risks to Human Health

IR3535 has been used as an insect repellent in Europe for 20 years with no substantial adverse effects. Toxicity tests show that the IR3535 is not harmful when ingested, inhaled, or used on skin. Eye irritation could occur if the chemical enters a person's eyes. Any allergic reactions are required to be reported to EPA

## IV. Assessing Risks to the Environment

Because the active ingredient is used only in products applied to human skin, no risks to the environment are expected.

## **V. Regulatory Information**

3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester was registered (licensed for sale) as an active ingredient in February 1999. As of January 2000, there was one end product containing this active ingredient.

## **VI. Products For Use Against Public Health Pests**

EPA defines a public health pest as any organism that can cause or transmit human disease, or can cause human discomfort or injury. Examples include mosquitoes, ticks, germs, and rats. To help protect the public's health, EPA requires registrants of products used against public health pests to demonstrate that the products meet specific standards for effectiveness as well as for safety. The product currently registered with 3-[N-Butyl-N-acetyl]-aminopropionic acid, ethyl ester as the active ingredient has met the applicable standards.

## **VII. Registrant Information**

### **EM Industries, Inc.**

7 Skyline Drive  
Hawthorne, NY

## **VIII. 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