

Sodium Ferric Ethylenediaminetetraacetate (EDTA) (139114) Fact Sheet

Summary

Sodium Ferric Ethylenediaminetetraacetate (Sodium Ferric EDTA) is a new active ingredient that comprises 6.00% of the end use product (EP) Slug & Snail Killer. The end use product is a pelleted bait intended for use as a molluscicide in agricultural, nursery, greenhouse, and home and garden applications. When Sodium Ferric EDTA is ingested by slugs or snails, the iron in the compound interacts with the hemocyanin common to the blood of crustaceans, and eventually causes death. No risks to humans or the environment are expected when pesticide products containing pelargonic acid are used according to the label directions.

I. Description of the Active Ingredient

Sodium Ferric EDTA is comprised of iron in a sodium EDTA chelate. Sodium Ferric EDTA is a commodity ingredient used in agriculture as a micronutrient, and used in the chemical industry as a catalyst. Sodium Ferric EDTA is a common chelating agent, which immobilizes metal ions until in an environment where they are available for uptake.

II. Use Sites, Target Pests, And Application Methods

Use Slug & Snail Killer is intended for use around

1. agricultural crops, including vegetables, fruit trees, berries, field crops, vineyards, greenhouse-grown vegetables, grass grown for seed production, and wheat;
2. turf, including golf courses and sod farms;
3. ornamental plants, including those grown in containers in nurseries or greenhouses; and
4. homes and gardens.

Slug & Snail Killer will be applied evenly to moist soil around or near plants and areas to be protected using a conventional ground spreader, handheld spreader, rotary spreader, or by dispensing directly from the container as a spot treatment.

III. Assessing Risks to Human Health

Sodium Ferric EDTA is comprised of iron and is used in agriculture as a micronutrient. Humans are regularly exposed to small amounts of Sodium Ferric EDTA. The use of Sodium Ferric EDTA as a molluscicide on ornamental crops and around food crops is not expected to increase human exposure or risk. Furthermore, tests indicate that Sodium

Ferric EDTA has little to no known toxic effects. Sodium Ferric EDTA is an eye irritant, and product labels describe precautions that users should follow to prevent the products from getting in their eyes.

IV. Assessing Risks to the Environment

Sodium Ferric EDTA is not expected to have adverse effects on non-target organisms or the environment. An acute toxicity test on birds showed little or no toxicity, and waivers were provided and accepted for all other non-target organisms. The waiver rationales that were provided showed little to no toxicity to non-target organisms.

Freshwater invertebrate testing is not required. The iron in ferric sodium EDTA would be toxic to *Daphnia*, since they are crustaceans. Exposure of daphnids and other crustaceans is not likely to occur when label directions are followed, as the end use product is applied directly to soil, and is not intended for use in aquatic environments.

V. V. Producer Information

Woodstream Corporation
69 Locust Street
Lititz, PA 17543-0327

VI. 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