

Sodium Carbonate Peroxyhydrate (128860) Fact Sheet

Summary

Sodium Carbonate Peroxyhydrate is a granular chemical which is the active ingredient in certain algaecide and fungicide products. The end product containing this active ingredient acts as an oxidizing agent and thus kills the target algal and fungal pests. The product is used outdoors for treating ornamental plants, turf grasses, and terrestrial landscapes. It is used, as well, for treatments in commercial greenhouses, garden centers and plant nurseries, including their storage areas.

I. Description of the Active Ingredient

Sodium Carbonate Peroxyhydrate is a granular substance made by combining sodium carbonate and hydrogen peroxide. The following is its mode of action: When water is present, the compound breaks down into hydrogen peroxide and sodium carbonate. The hydrogen peroxide oxidizes and thus kills the target pests. After contact, the hydrogen peroxide breaks down harmlessly into water and oxygen. (CAS No. 15630-89-4)

II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Ornamental plants, turf grasses, terrestrial landscapes, in commercial greenhouses, garden centers, nurseries and storage areas. There are no food uses.
- **Target pests:** Examples include: Algae, moss, liver worts, slime molds and their spores.
- **Application Methods:** The granular product is applied by a lawn spreader or other application method that will ensure uniform coverage. For plants in small pots, spreading is done by hand. All applications must be made under wet conditions. For use on turf grasses, application is immediately followed by watering for 8-10 minutes by sprinkler irrigation to a depth of 1/8 to 1/10 of an inch.

III. Assessing Risks to Human Health

Tests with sodium carbonate peroxyhydrate show minimal to mild toxicity for oral and dermal exposure. Dermal irritation also occurred. There was severe irreversible eye damage. The substance is not considered a dermal sensitizer. Exposure to the general population would be minimal. Workers are required to wear appropriate protective equipment to protect themselves, especially their eyes, from exposure to this corrosive substance.

IV. Assessing Risks to the Environment

When the pesticide is applied in accordance with directions on the label, no harm is expected to birds, other terrestrial animals, freshwater fish, or freshwater invertebrates. In the case of non-target plants, no harm is foreseen if the label directions are followed. These directions recommend testing the plants on a small area for damage before proceeding with widespread application, and preventing the soil from becoming too alkaline. Precautionary statements are present on the label to prevent exposure to non-target insects, including honey bees.

V. Regulatory Information

Products which contain the new active ingredient are Technical Sodium Carbonate Peroxyhydrate and TerraCyte™, which were registered (licensed for sale) in September, 2002.

VI. Registrant Information

Technical Sodium Carbonate Peroxyhydrate: Solvay Interox, Inc.,
3333 Richmond Avenue,
Houston, TX 77098

TerraCyte™ : BioSafe Systems,
36 Commerce Street,
Glastonberry, CT 06033

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