

IRON PHOSPHATE
New York State Department of Environmental Conservation

Division of Solid and Hazardous Materials

50 Wolf Road, Albany, New York 12233-7250

Phone: (518) 457-6934 • FAX: (518) 457-0629



May 25, 2000

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Lynne C. Zahigian
Regulatory Affairs
Lawn and Garden Products, Inc.
6650 Wade Lane
Stagecoach, NV 89429

Dear Ms. Zahigian:

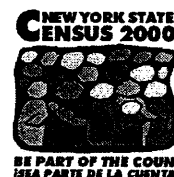
**Re: Registration of the New Active Ingredient - Iron Phosphate Contained
in the Pesticide Product - Sluggo (EPA Reg. No. 67702-3-54705)**

The New York State Department of Environmental Conservation (the Department) has completed its review of the application received from Lawn and Garden Products, Inc. on July 27, 1999 for the above-mentioned pesticide product. Sluggo (EPA Reg. No. 67702-3-54705) contains 1.0% iron phosphate which is blended with slug and snail bait additives and labeled for use on lawns, in vegetable gardens, on berries and fruit, and in greenhouses to control slugs and snails. Iron phosphate is not found in any pesticide product currently registered for use in New York State and, therefore, on November 2, 1999, the Department requested the necessary documentation to support this application for use of iron phosphate in New York State.

On December 14, 1999, supporting documentation was received from Lawn and Garden Products, Inc. The application was deemed complete on February 2, 2000 and the registration decision date is June 23, 2000.

The reviewers found that the formulated product was not very toxic in acute oral and dermal exposure studies in laboratory animals. However, while the Sluggo product was not irritating to rabbit skin, it was mildly irritating to their eyes.

The United States Environmental Protection Agency (USEPA) waived acute inhalation, dermal sensitization, genotoxic, developmental, subchronic and chronic/oncogenicity studies "because of the abundance of iron in nature, its GRAS (generally recognized as safe) status, its low toxicity, its use as a nutritional supplement,



and the low water solubility of iron phosphate, which would limit its absorption across the intestinal epithelium." The USEPA also did not require the registrant to submit any environmental fate and residue data, and exempted the requirement of a tolerance for iron phosphate.

According to the USEPA and various other literature sources, doses of iron less than 20 milligrams per kilogram (mg/kg) are typically not associated with health effects, whereas 20 to 60 mg/kg may cause mild-to-moderate toxicity characterized by nausea, vomiting, diarrhea and stomach pain; ingestion of iron at doses greater than 60 mg/kg is potentially serious. For the beginning of mild-to-moderate health effects to occur (at a dose of 20 mg/kg), a child weighing 13.2 kg would have to ingest about 73 grams of the Sluggo product. According to the pesticide product's label, this amount of Sluggo would treat a 160-square-foot garden.

The available information indicates that the labeled uses of Sluggo should not pose significant risks to those who may use the product. It also seems unlikely that a child would accidentally ingest enough Sluggo product to cause adverse health effects. However, the final label submitted to the Department by Lawn and Garden Products, Inc. omitted the following statements, which are on the USEPA-stamped "ACCEPTED" label, from the "HOW TO APPLY" section of the label:

"Do Not Place in Piles. If the ground is dry, wet before applying bait. The soil should be moist with little or no standing water."

Because the product is intended for broadcast application, it would be difficult for a small child to consume a toxic amount of Sluggo. However, if the product were to be applied in small piles, the likelihood of a child ingesting a toxic amount is increased. To respond to this concern, Lawn and Garden Products, Inc. has proposed to place stickers on the label accepted for registration in New York State that add the statement "Do Not Place in Piles" to the front of the product label.

There are no chemical-specific federal or State drinking water/groundwater standards for iron phosphate. Because it is not an organic compound, the general New York State drinking water standards for principal and unspecified organic compounds do not apply to iron phosphate. There is a New York State drinking water standard for iron, which is 300 micrograms per liter (10 NYCRR Part 5, Public Water Systems).

We have concluded that use of Sluggo as labeled is not likely to pose unacceptable risks to public health or environmental resources in New York State.

Therefore, the Department accepts Sluggo (EPA Reg. No. 67702-3-54705) for registration in New York State. As part of this registration decision, Lawn and Garden Products, Inc. agrees to add the omitted "HOW TO APPLY" statements to their label at the next printing or by May 25, 2001, whichever comes first.

Ms. Lynne C. Zahigian

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Enclosed are the Certificate of Registration and a stamped accepted copy of the product label for your records. If you have any questions, please contact Frank X. Hegener, Acting Chief of our Pesticide Product Registration Section, at (518) 457-7446.

Sincerely,



Stephen Hammond, P.E.

Director

Division of Solid & Hazardous Materials

Enclosure

cc: w/enc.- G. Good/W. Smith, Cornell PMEP
R. Zimmerman/R. Mungari, NYS Dept. of Ag & Mkts.
N. Kim/D. Luttinger, NYS Dept. of Health