

US EPA ARCHIVE DOCUMENT

114501

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6/12/79

PP# 9G2152: Larvin in Cottonseed and Soybeans. Evaluation of analytical method and residue data

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Thru: Acting Chief, RCB, HED (TS-769)

The Union Carbide Corporation proposes tolerances for combined residues of the insecticide Larvin (UC 51762), dimethyl N,N'-[thiobis[(methylimino)carbonyloxy]]bis[ethanimidothioate], and its metabolite methomyl, S-methyl N-[(methylcarbamoyl)oxy]thioacetamide in or on the following commodities.

Cottonseed	0.1 ppm
Soybeans	0.1 ppm
Soybean straw	0.02 ppm

There are no tolerances established for Larvin. However, the metabolite, methomyl, is an insecticide with established tolerances on a variety of commodities at levels of 0.1-40 ppm (§180.253). These tolerances include levels of 0.1 ppm for cottonseed, 0.2 ppm for soybeans, and 10 ppm for soybean forage.

The proposed tolerances are to cover residues resulting from an experimental program which entails the use of 2,200 pounds of active ingredient on 1,000 acres of cotton and soybeans. The experimental program is to take place in 20 states in the major cotton and soybean growing areas of the United States.

Conclusions

1. [REDACTED] is not sufficiently identified to determine if it is cleared for use under §180.1001.
2. The nature of the residue in plants and animals is adequately understood. The parent compound UC51762 and its metabolite methomyl are the significant components of the residues.
3. An adequate analytical method is available for the determination of residues of UC51762 and methomyl.
4. Residues in cottonseed, soybeans, and their byproducts (oil, meal, soapstock), or soybean straw are not likely to exceed the proposed tolerances.
5. Residues are not likely to occur in eggs, milk, and meat, fat, and meat byproducts of cattle, goats, hogs, horses, poultry, and sheep as a result of the proposed uses [§180.6(a)(3)].

INERT INGREDIENT INFORMATION IS NOT INCLUDED

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Recommendation

Toxicological considerations permitting, we recommend for the proposed tolerances.

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TS-769:RCB:ASMITH:sdb:X77484:RM810:CM#2:6/12/79