

Shaughnessy #: 090301

Due Date: 8/31/84

Init: SK 31 JUL 1984

To: Jay Ellenberger
Product Manager #12
Registration Division (TS-767)

From: Joseph C. Reinert, Ph.D., Chief
Review Section # 4
Environmental Fate Branch
Hazard Evaluation Division (TS-769c)

Attached please find the EAB review of...

Reg./File No.: 352-342 & 352-370

Chemical: Methomyl

Type Product: Insecticide

Product Name: Lannate

Company Name: duPont

Submission Purpose: Applicator exposure from greenhouse use

ZBB Code: ?

ACTION CODE: 31

Date In: 6/4/84

EAB # 4417-4418

Date Completed: 7/31/84

TAIS (level II)

Days

63

1

Deferrals To:

 Ecological Effects Branch

 Residue Chemistry Branch

 Toxicology Branch

We have examined the documents submitted in support of amended registration of Lannate® for use in greenhouses. No data were included that could be used to calculate dermal and inhalation exposure values for this use. In addition there is no non-proprietary information in our files that is applicable to this use.

In order to estimate worker exposure to Lannate during application in greenhouses, EAB needs information specific to greenhouse use. These data must be provided by the registrant. As an aid to registrants and others, the following general background documents are available to describe how exposure monitoring studies and quantitative exposure assessments are carried out:

1. Davis, James E. (1980). "Minimizing Occupational Exposure to Pesticides: Personnel Monitoring." Residue Reviews 75: 33.

This review article describes state-of-the-art procedures for the actual field measurement of dermal and respiratory exposure.

2. Severn, David J. (1982). "Exposure Assessment for Agricultural Chemicals" in Genetic Toxicology - An Agricultural Perspective, R.D. Fleck and A. Hollaender, Eds., Plenum Press, New York, p. 235

This paper presents an overview of how exposure assessments are carried out in EAB, including a discussion of the use of surrogate exposure studies for assessments when no data are available for a particular pesticide.

3. Severn, David J. (1980). "Use of Exposure Data for Risk Assessment." Presented at the "Symposium on Determination and Assessment of Pesticide Exposure." October 29. Hershey, PA.

This paper describes in greater detail what assumptions are made and how exposure assessments are performed in OPP.

4. Reinert, Joseph C. and Severn, David J. (1984). "Dermal Exposure to Pesticides: EPA's Viewpoint." to be published in a Proceedings Volume of the April, 1984 National ACS Meeting held in St. Louis.

This paper is a synthesis of the methodologies and logistics used in preparing applicator exposure assessments in OPP.

Copies of these documents are attached. If more detailed guidance is needed, or if specific questions related to any aspect of pesticide exposure assessment arise, please feel free to contact our office at any time.

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. Attachments