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Shaughnessy No.: 109301

Date Out of EAB: MAR 23 1988

To: George LaRocca
Product Manager #15
Registration Division (TS-767C)

From: Emil Regelman, Supervisory Chemist
Review Section #3
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)



Thru: Paul F. Schuda, Ph.D., Chief
Exposure Assessment Branch
Hazard Evaluation Division (TS-769C)



Attached, please find the EAB review of...

Reg./File # : 000352-00486 & 000352-00503

Common Name: fenvalerate

Type Product : Insecticide

Product Name : Pydrin®

Company Name : E. I. duPont de Nemours and Company

Purpose : Review the activated sludge metabolism study of Pydrin®

Date Received: 2/16/88

Action Code(s): 570

Date Completed: 3/23/88

EAB #(s) : 80421-22

Monitoring study submitted:

Total Reviewing Time: 1 day

Monitoring study voluntarily:

Deferrals to: Ecological Effects Branch
 Residue Chemistry Branch
 Toxicology Branch

1. CHEMICAL: Common name(s):

Fenvalerate

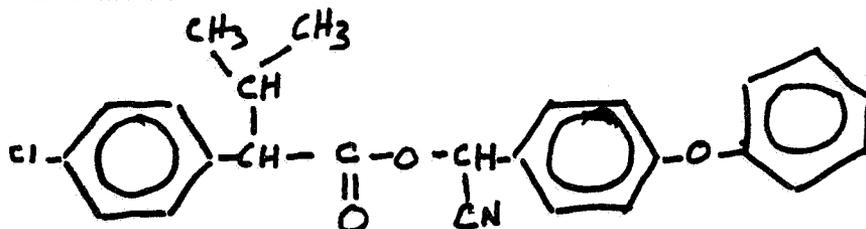
Chemical name:

Cyano (3-phenoxyphenyl) methyl 4-chloro- α -(1-methylethyl) benzeneacetate

Trade name(s):

Pydrin®, Belmark, Fenkill, S-5602, Sarmarton, Sunicidin, Sumifly, and Sumipower

Structure:



Formulations:

G, Impr, EC, SC, RTU, and PrL.

Physical/Chemical properties:

Molecular formula: C₂₅H₂₂ClNO₃

Molecular weight: 419.9

Physical state: Clear viscous yellow or brown liquid at 23°C; mild chemical odor

Vapor pressure: 1.1 x 10⁻⁸ mm Hg at 25°C

Density: 1.17 g/ml at 20°C

Solubility: in water, <1 mg/L at 20°C; in acetone, chloroform, cyclohexane, ethanol, and xylene, > 1 kg/kg; in hexane, 155 g/kg at 23°C.

Stability: Stable to heat, moisture and sunlight; More stable in acid (pH 4) than alkaline.

2. TEST MATERIAL: N/A.

3. STUDY/ACTION TYPE:

Review the activated sludge metabolism study as data requirements to support registration of Pydrin® [EPA Reg. Nos. 352-486 (201-402) and 352-503 (201-URO)] Insecticide.

4. STUDY IDENTIFICATION: N/A.

5. REVIEWED BY:

Padma Datta, Ph.D.
Chemist
Review Section #3
EAB/HED/OPP

Signature: _____

PRDatta

Date: _____

3/23/88

6. APPROVED BY:

Emil Regelman
Supervisory Chemist
Review Section #3
EAB/HED/OPP

Signature: _____

EReg

Date: _____

MAR 23 1988

7. CONCLUSION:

EAB did not review the activated sludge metabolism study of Pydrin® (Acc. No. 405065-01) submitted on 2/8/88 by E. I. duPont de Nemours & Co. Inc., because such a study is no longer an environmental fate data requirements to support registration of Pydrin® under 40 CFR §158.130.

8. RECOMMENDATION:

EAB recommends RD inform E. I. duPont de Nemours & Co., Inc., that the activated sludge metabolism study of Pydrin® entitled "The Effect of SD-43775 On Activated Sludge Metabolism", is no longer an environmental fate study requirement under 40 CFR §158.130.

9. BACKGROUND:

On 2/8/88 the registrant, E. I. duPont de Nemours & Co., Inc., submitted the study entitled, "The Effects of SD-43775 On Activated Sludge Metabolism" which had been completed by Shell Development Company in 1979 as a study to support registration of Pydrin® (Asana®) [EPA Reg. Nos. 352-486 (201-402) and 352-503 (201-URD)].

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: N/A.

11. COMPLETION OF ONE-LINER: N/A.

12. CBI APPENDIX: N/A.