

Shaughnessy No.: 109301

Date Out of EAB: MAR 11 1988

To: William Miller  
Product Manager #16  
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 # : 000352-00453

Chemical Name: fenvalerate

Type Product : Insecticide

Product Name : Pydrin®

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

Purpose : Review Label amendments to use Pydrin® on berries and currants.

Date Received: 12/22/87

Action Code(s): 330

Date Completed: 3/9/88

EAB #(s) : 80264

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

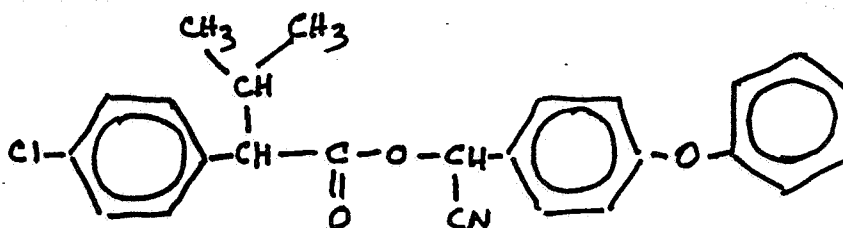
Chemical name:

Cyano (3-phenoxyphenyl) methyl 4-chloro- $\alpha$ -(1-methylethyl) benzeneacetate

Trade name(s):

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

Structure:



Formulations:

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

Physical/Chemical properties:

Molecular formula:  $C_{25}H_{22}ClNO_3$

Molecular weight: 419.9

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

Vapor pressure:  $1.1 \times 10^{-8}$  mm g 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 environmental fate data requirements for a label amendment to add the use of Pydrin® 2.4 EC (EPA REG. NO. 352-485) on berries and currants.

4. STUDY IDENTIFICATION: N/A.

REVIEWED BY:

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

Signature: PK Datta

Date: 3/10/88

6. APPROVED BY:

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

Signature: E Regelman

Date: MAR 11 1988

7. CONCLUSION:

EAB concurs with the label amendment of Pydrin® 2.4 EC (EPA REG. NO. 352-485) to add the use on blueberries, elderberries, gooseberries and huckleberries and currants because environmental fate data requirements to support registration for terrestrial food crops are fulfilled under 40 CFR §158.130.

8. RECOMMENDATION:

EAB recommends RD inform E. I. duPont de Nemours & Co., Inc. that the label amendment of Pydrin® 2.4 EC (EPA REG. NO. 352-485) to add the use on Blueberries, elderberries, gooseberries, and huckleberries, currants and is acceptable to EAB.

9. BACKGROUND:

The registrant, E. I. duPont de Nemours & Co., Inc., has completed all the data requirements to support registration of fenvalerate (Pydrin®) under 40 CFR §158.130 for terrestrial food crops. For details, refer to EFB review #5312, 2/21/85. Tolerances for fenvalerate residues (3.0 ppm) for blueberries, elderberries, gooseberries, huckleberries, and currants have been established (FR 52, #32, February 8, 1987). On 5/5/87, duPont requested a label amendment to add the use on the above-mentioned berries and currants to the Pydrin® label based on work in the IR-4 program.

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

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

12. CBI APPENDIX: N/A.