US EPA ARCHIVE DOCUMENT

2-15-91

Case No.: 2580
Chemical No(s).: 069001

OREB TRANSMITTAL SHEET FOR PHASE 4 REVIEWS

Transmitted to HED on 8/31/90
Case name: Pyrethrin, and derivatives
Chemical name(s): Pyrethrin I
Data submitter(s): PRENTISS DRUG & CHEMICAL COMPANY INC

CRM: Linda Deluise Phone #: 703-308-8066

Issues/flags:

This action contains a request for a DATA WAIVER ( )
TIME EXTENSION ( )
ALTERED/DELETED USE ( )

Other:

Branch: Occupational and Residential Exposure Branch
Reviewed by: [illegible] Date: 2/8/91

Approvals:

Section Head: Laura Morris for Al Nielsen Date: 2/15/91

Branch Chief: A. Nielsen for C. Trichuto Date: 2/15/91

Response, by Guideline

Guideline #: 132-1(a) Description: Foliar Residue Dissipation
Is requirement applicable? (Y/N): N
Has an acceptable summary been submitted? (Y/N): N
Data Waiver( ) Time Extension( ) Other ( ) N/A
Data Waiver/Time Extension (If applicable) Granted? (Y/N): N/A
Discussion: Pyrethrin, a botanical insecticide formulated as dust and sprays, is used extensively in stock sprays, pet sprays, household sprays and aerosols, industrial sanitation sprays, and to protect stored food in warehouses. The potential for worker exposure to foliage exists based on the foliar applications of the pesticide. According to the available toxicity data concerning Pyrethrin, the acute dermal and inhalation toxicity is category 3. Therefore, based on the available toxicity information, a foliar dislodgeable residue dissipation study is not required at this time.

Guideline #: 132-1(b) Description: Soil Residue Dissipation
Is requirement applicable? (Y/N): N
Has an acceptable summary been submitted? (Y/N): N
Data Waiver( ) Time Extension( ) Other ( ) N/A
Data Waiver/Time Extension (If applicable) Granted? (Y/N): N/A
Discussion: Pyrethrin, a botanical insecticide formulated as dust and sprays, is used extensively in stock sprays, pet sprays, household sprays, and aerosols, industrial sanitation sprays, and to protect stored food in warehouses. The potential for worker exposure to soil is minimal based on the use information of the pesticide. Pyrethrin does not meet the current toxicity triggers (acute dermal and inhalation toxicity category 3) Therefore, based on the available toxicity and use information, a soil dissipation study is not required.

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1. Use information based on the LUIS report dated 02/04/91 from Phyllis Johnson, BEAD and Farm Chemicals Handbook, 1990, C245.

2. The toxicity data is retrieved from the tox one-liner dated 01/29/91, and discussion with SACB.

Guideline #: 133-3 Description: Dermal Exposure
Is requirement applicable? (Y/N): N
Has an acceptable summary been submitted? (Y/N): N
Data Waiver( ) Time Extension( ) Other ( ) N/A
Data Waiver/Time Extension (If applicable) Granted? (Y/N): N/A
Discussion: Pyrethrin, a botanical insecticide formulated as dust and sprays, is used extensively in stock sprays, pet sprays, household sprays, and aerosols, industrial sanitation sprays, and to protect stored food in warehouses. The potential for worker dermal exposure exists based on the use information of the pesticide. Pyrethrin does not meet the current toxicity triggers (acute dermal and inhalation toxicity category 3) Therefore, based on the available toxicity, a dermal exposure study is not required at this time.

Guideline #: 133-4 Description: Inhalation Exposure
Is requirement applicable? (Y/N): N
Has an acceptable summary been submitted? (Y/N): N
Data Waiver( ) Time Extension( ) Other ( ) N/A
Data Waiver/Time Extension (If applicable) Granted? (Y/N): N/A
Discussion: Pyrethrin, a botanical insecticide formulated as dust and sprays, is used extensively in stock sprays, pet sprays, household sprays, and aerosols, industrial sanitation sprays, and to protect stored food in warehouses. The potential for worker inhalation exposure exists based on the use information of the pesticide. Pyrethrin does not meet the current toxicity triggers (acute dermal and inhalation toxicity category 3) Therefore, based on the available toxicity, an inhalation reentry exposure study is not required at this time.

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1. Use information based on the LUIS report dated 02/04/91 from Phyllis Johnson, BEAD and Farm Chemicals Handbook, 1990, C245.

2. The toxicity data is retrieved from the tox one-liner dated 01/29/91, and discussion with SACB.

Other Requirements:

Applicator Exposure Monitoring (Subdivision U)

Guideline #231: Estimation of Dermal Exposure at Outdoor Sites
Guideline #232: Estimation of Inhalation Exposure at Outdoor Sites
Guideline #233: Estimation of Dermal Exposure at Indoor Sites
Guideline #234: Estimation of Inhalation Exposure at Outdoor Sites

Comments:

Pyrethrin, a botanical insecticide formulated as dust and sprays, is used extensively in stock sprays, pet sprays, household sprays and aerosols, industrial sanitation sprays, and to protect stored food in warehouses. The potential for worker exposure exists based on the use information of the pesticide. Pyrethrin does not meet the current toxicity triggers (acute dermal and inhalation toxicity category 3). Therefore, based on the available toxicity, mixer/loader/applicator exposure data are not required at this time.

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1. Use information based on the LUIS report dated 02/04/91 from Phyllis Johnson, BEAD and Farm Chemicals Handbook, 1990, C245.

2. The toxicity data is retrieved from the tox one-liner dated 01/29/91, and discussion with SACB.