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OREB TRANSMITTAL SHEET FOR PHASE 4 REVIEWS

Transmitted to HED on 8/27/90
Case name: Thiabendazole
Chemical name(s): 2-(4'-Thiazolyl) benzimidazole
Data submitter(s): Merck & Co., Inc.

CRM:F. Rubis Phone #: 703-308-8184

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: [Signature] Date: 2/15/91

Approvals:
Section Head: [Signature] Date: 2/15/91
Branch Chief: [Signature] 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: Thiabendazole, a systemic fungicide and anthelmintic is formulated as a dust, a wettable powder, an emulsifiable concentrate, a soluble liquid concentrate, a ready-to-use liquid or as water dispersable granules. It is used on and around a variety of targets including pome and citrus fruits, root crops, seed and pod vegetables, forage legumes, grain crops, ornamental trees and plants, tobacco, and as an industrial preservative. Thiabendazole is applied using typical aerial and ground techniques. The potential for exposure exists (i.e., foliar applications to various crops). Thiabendazole does not meet the current toxicity triggers (acute dermal toxicity category 3). Based on the available toxicity data, a foliar dislodgeable residue study is not required at this time in support of reregistration.

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: Thiabendazole, a systemic fungicide and anthelmintic is formulated as a dust, a wettable powder, an emulsifiable concentrate, a soluble liquid concentrate, a ready-to-use liquid or as water dispersable granules. It is used on and around a variety of targets including pome and citrus fruits, root crops, seed and pod vegetables, forage legumes, grain crops, ornamental trees and plants, tobacco, and as an industrial preservative. Thiabendazole is applied using typical aerial and ground techniques. The potential for soil exposure exists (i.e., applications to root crop vegetables). Thiabendazole does not meet the current toxicity triggers (acute dermal toxicity category 3). Based on the available toxicity data, a soil residue dissipation study is not required at this time in support of reregistration.

1 Use information based on the LUIS report dated 1/20/91 from Phyllis Johnson, BEAD.

2 The toxicity data is retrieved from the tox one-liner dated 1/24/91 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:
Thiabendazole, a systemic fungicide and anthelmintic is formulated as a dust, a wettable powder, an emulsifiable concentrate, a soluble liquid concentrate, a ready-to-use liquid or as water dispersable granules. It is used on and around a variety of targets including pome and citrus fruits, root crops, seed and pod vegetables, forage legumes, grain crops, ornamental trees and plants, tobacco, and as an industrial preservative. Thiabendazole is applied using typical aerial and ground techniques. The potential for dermal reentry exposure exists (i.e., foliar applications). Thiabendazole does not meet the current toxicity triggers (acute dermal toxicity category 3). Based on the available toxicity data, a dermal reentry exposure study is not required at this time in support of reregistration.

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:
Thiabendazole, a systemic fungicide and anthelmintic is formulated as a dust, a wettable powder, an emulsifiable concentrate, a soluble liquid concentrate, a ready-to-use liquid or as water dispersable granules. It is used on and around a variety of targets including pome and citrus fruits, root crops, seed and pod vegetables, forage legumes, grain crops, ornamental trees and plants, tobacco, and as an industrial preservative. Thiabendazole is applied using typical aerial and ground techniques. Based on the available toxicity and use data, an inhalation reentry exposure study is not required.

1 Use information based on the LUIS report dated 1/20/91 from Phyllis Johnson, BEAD.
2 The toxicity data is retrieved from the tox one-liner dated 1/24/91 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 Indoor Sites

Comments:

Thiabendazole, a systemic fungicide and anthelmintic is formulated as a dust, a wettable powder, an emulsifiable concentrate, a soluble liquid concentrate, a ready-to-use liquid or as water dispersable granules. It is used on and around a variety of targets including pome and citrus fruits, root crops, seed and pod vegetables, forage legumes, grain crops, ornamental trees and plants, tobacco, and as an industrial preservative. Thiabendazole is applied using typical aerial and ground techniques. The potential for mixer/loader/applicator exposure exists. Based on the toxicity data available at this time, a mixer/loader/applicator exposure study is not required at this time in support of reregistration.

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1 Use information based on the LUIS report dated 1/20/91 from Phyllis Johnson, BEAD.

2 The toxicity data is retrieved from the tox one-liner dated 1/24/91 and discussion with SACB.