

US EPA ARCHIVE DOCUMENT

2/15/91

Case No.: 2670
Chemical No(s):: 060101

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: J. Smith Date: 2/14/91

Approvals:
Section Head: Laura Morris for Al Nielsen Date: 2/15/91
Branch Chief: A. Nielsen for C. Trichilo 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 dispersible 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 dispersible 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 dispersible 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 dispersible 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 dispersible 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.

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.