

US EPA ARCHIVE DOCUMENT

Case No.: 4092  
Chemical No(s): 120301

OREB TRANSMITTAL SHEET FOR PHASE 4 REVIEWS

Transmitted to HED on 11/03/92  
Case name: 120301 Thidiazuron (ANSI)  
Chemical name(s): N-Phenyl-N'-1,2,3-thiazol-5-yl urea  
Data submitter(s): 045639 Nor-Am Chemical Company  
CRM: Tom Myers Phone #: 703-308-8074

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: Judy Smith Date: 12/2/92

Approvals:  
Section Head: Al P. Nish Date: 12/21/92  
Branch Chief: Mark J. Gouff Date: 29 Dec 92  
Division Director: Penelope A. Jenner-Crisp Date: 1/12/93

Response, by Guideline

Guideline #: 132-1(a) Description: Foliar Residue Dissipation  
Is requirement applicable? (Y/N): N

Discussion: Thidiazuron, formulated as a 50% wettable powder packed in water-soluble packets, is utilized as a cotton defoliant and regrowth suppressant prior to harvest of bolls. The technical grade material (99.3% pure a.i.) is a dermal and eye toxicity category IV chemical. Based on available toxicity data and use information, OREB does not require a foliar residue dissipation study to support reregistration.<sup>2</sup>

Guideline #: 132-1(b) Description: Soil Residue Dissipation  
Is requirement applicable? (Y/N): N

Discussion: Thidiazuron, formulated as a 50% wettable powder packed in water-soluble packets, is utilized as a cotton defoliant and regrowth suppressant prior to harvest of bolls. The technical grade material (99.3% pure a.i.) is a dermal and eye toxicity category IV chemical. Based on available toxicity data and use information, OREB does not require a soil residue dissipation study to support reregistration.<sup>2</sup>

Guideline #: 133-3 Description: Dermal Exposure  
Is requirement applicable? (Y/N): N

Discussion: Thidiazuron, formulated as a 50% wettable powder packed in water-soluble packets, is utilized as a cotton defoliant and regrowth suppressant prior to harvest of bolls. The technical grade material (99.3% pure a.i.) is a dermal and eye toxicity category IV chemical. Based on available toxicity data and use information, OREB does not require a dermal exposure study to support reregistration.<sup>2</sup>

1. Use information is based on the LUIS report dated 9/2/92 from Phyllis Johnson of BEAD, and the product label, EPA Reg. 45639-89.
2. Tox information was retrieved from the tox one liners dated 11/09/92 and discussion with the tox reviewer, D. McCall of Toxicology Branch on 11/20/92.

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Guideline #: 133-4 Description: Inhalation Exposure  
Is requirement applicable? (Y/N): N

Discussion: Thidiazuron, formulated as a 50% wettable powder packed in water-soluble packets, is utilized as a cotton defoliant and regrowth suppressant prior to harvest of bolls. Minimal acute inhalation data was available for this chemical.<sup>1</sup> Based on the lack of acute inhalation data for the technical material, OREB does not require an inhalation exposure study to support reregistration at this time.<sup>2</sup>

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Applicable 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 at Indoor Sites

Comments:

Thidiazuron, formulated as a 50% wettable powder packed in water-soluble packets, is utilized as a cotton defoliant and regrowth suppressant prior to harvest of bolls. Minimal acute inhalation data was available for this chemical.<sup>1</sup> Based on the absence of acute inhalation data for the formulated product, OREB reserves Guideline 232 (estimation of inhalation exposure at outdoor sites) and does not require a mixer/loader/applicator study to support reregistration at this time.<sup>2</sup>

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cc: Judy Smith/OREB  
Linda Kutney/SACB  
Debbie McCall/TOX II  
List D Chemical File  
Chemical File  
Correspondence

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