

US EPA ARCHIVE DOCUMENT

031301

Shaughnessy No.: 031301

Date Out of EAB: FEB 5 1987

Signature: \_\_\_\_\_

To:

H. Jacoby  
Product Manager # 21  
Registration Division (TS-767)

From:

Emil Regelman, Supervisory Chemist  
Review Section #3  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769c)



Attached, please find the EAB review of...

Reg./File # : 45639-128

Chemical Names: DCNA; dicloran

Type Product : Fungicide

Product Name : Botran

Company Name : Nor-Am Chemical Co.

Purpose : Review of Protocol for Confined Rotational Crop Study

ACTION CODE: 352

EAB #(s) : 6290

Date Received: 2/04/86

TAIS Code: 65

Date Completed: 2/05/87

Total Reviewing Time: 1.0 Day

Monitoring study requested: \_\_\_\_\_

Monitoring study voluntarily: \_\_\_\_\_

Deferrals to: \_\_\_\_\_ Ecological Effects Branch

\_\_\_\_\_ Residue Chemistry Branch

\_\_\_\_\_ Toxicology Branch

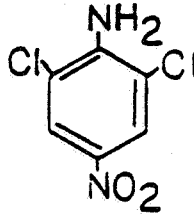
1

1. Chemical: Common names: DCNA; dicloran; ditranil

Chemical name: 2,6-dichloro-4-nitroaniline

Trade name(s): Allisan; Botran; Kiwi Lustr 277; Resisan

Structure:



Formulations: 4-15 and 50% D; 75% WP; 9 and 30% FlC; 0.5 & 3% RTU

Physical/Chemical Properties:

Molecular formula: C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular weight: 207.0

Physical state: Crystalline solid

Solubility: in water, "practically insoluble"(no ppm value)

Melting point: 192-194° C

2. TEST MATERIAL: Proposed- U- <sup>14</sup>C-dicloran

3. STUDY/ACTION TYPE: Review of Proposed Protocol for Confined Crop Rotation Study.

4. STUDY IDENTIFICATION: Proposed Confined Crop Rotation Protocol submitted for EAB review, attached.

5. REVIEWED BY:

John H. Jordan, Ph.D.  
Microbiologist  
EAB/HED/OPP

Signature: \_\_\_\_\_

Date: 2/4/81

6. APPROVED BY:

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

Signature: Emil Regelman

Date: Feb 5 1981

7. CONCLUSIONS: The following changes should be made in the proposed Confined Crop Rotation Protocol:

Title: Add the word "Confined"

Aim: Add the specific crop plants, i.e., lettuce, potatoes and wheat; omit "different plant species".

Outline: a) After the first sentence, insert the following sentence:

"Soil samples will be taken pre-treatment, after treatment and at the above specified intervals".

b) Omit the last sentence in the paragraph and add the following:

"Significant <sup>14</sup>C residues will be characterized, identified, and quantified using techniques outlined in part 3.5, paragraph 4, which will, also, include acid/base/enzymatic hydrolysis".

Active

Ingredient: Omit the last paragraph

Soil Type: Change last line in the last paragraph to read as follows: "The soil moisture will be maintained at approximately 75% of 0.33 bar".

Treatment & Incubation: The following comment refers to paragraph 1, last sentence:

Soil penetration of the test material to a depth of 6-7 cm, instead of 10 cm, may be more realistic because preliminary data indicate soil fixation, poor water solubility and slow leaching.

Insert the following phrase in the first sentence of the second paragraph as follows: The compound will be "applied to the soil surface" at the above mentioned ..... guidelines(2). We prefer that the test substance be applied to the soil surface because DCNA is foliar applied and reaches the soil surface under actual use conditions.

The last sentence in this section should be changed to read as follows: "The soil moisture will be maintained at approximately 75% of 0.33 bar.

Planting of

Crops: The last sentence should read ..... and maintain 75% of 0.33 bar moisture.

8. RECOMMENDATIONS: EAB recommends that the changes be made as indicated in the Conclusion, above.

9. BACKGROUND:

The proposed protocol for conducting a Confined Crop Rotation study was submitted to EAB for comment.

10. DISCUSSION:

If registrant disagrees with EAB's comments on the protocol or prefers to make further changes, EAB should be informed.

11. ONE-LINER:

One-liner not initiated to date.

12. CBI APPENDIX:

The protocol is CBI.

**REGISTRATION DIVISION DATA REVIEW RECORD**  
 Confidential Business Information - Does Not Contain National Security Information (E.O. 12065)

13023  
2-4-86

1. CHEMICAL NAME DCNA

2. IDENTIFYING NUMBER <u>45639-128</u>	3. ACTION CODE <u>352</u>	4. ACCESSION NUMBER <u>N/A</u>	TO BE COMPLETED BY PM
			5. RECORD NUMBER <u>166134</u>
			6. REFERENCE NUMBER <u>8</u>
			7. DATE RECEIVED (EPA) <u>1/22/86</u>
			8. STATUTORY DUE DATE
			9. PRODUCT MANAGER (PM) <u>JACOBY</u>
			10. PM TEAM NUMBER <u>21</u>

14. CHECK IF APPLICABLE

Public Health/Quarantine       Minor Use

Substitute Chemical       Part of IPM

Seasonal Concern       Review Requires Less Than 4 Hours

*PH*

TO BE COMPLETED BY PCB

11. DATE SENT TO HED/TSS  
2-23-86

12. PRIORITY NUMBER  
49

13. PROJECTED RETURN DATE  
23-23-86

15. INSTRUCTIONS TO REVIEWER

A. HED     Total Assessment - 3(c)(5)      C.  BFSB

Incremental Risk Assessment - 3(c)(7) and/or E.L. Johnson memo of May 12, 1977.      D.  TSS/RD

B. SPRD (Send Copy of Form to SPRD PM)      E.  Other

Chemical Undergoing Active RPAR Review

Chemical Undergoing Active Registration Standards Review

F. INSTRUCTIONS

*Please review submitted protocol*

16. RELATED ACTIONS

17. 3(c)(1)(D)      18. REVIEWS SENT TO

Use Any or All Available Information       Use Only Attached Data       TB       EEB       EF       PL

Use Only the Attached Data for Formulation and Any or All Available Information on the Technical or Manufacturing Chemical.       RCB       EFB       CH       BFSB

19. To	TYPE OF REVIEW	NUMBER OF ACTIONS							
		Registration	Petition	EUP	SLN	Sec. 18	Inert	MNR. USE	Other
HED	TOXICOLOGY								
	ECOLOGICAL EFFECTS								
	RESIDUE CHEMISTRY								
	<input checked="" type="checkbox"/> ENVIRONMENTAL DATA								1
RD/TSS	CHEMISTRY								
	EFFICACY								
	PRECAUTIONARY LABELING								
BFSB	ECONOMIC ANALYSIS								

20.  Label Submitted with Application Attached

21.  Confidential Statement of Formula

22.  Representative Labels Showing Accepted Uses Attached

23. Date Returned to RD (to be completed by HED)

24. Include an Original and 4 (four) Copies of This Completed Form for Each Branch Checked for Review.