

US EPA ARCHIVE DOCUMENT

1-11-82
FILE COPY

Date Out EFB: JAN 11 1982

To: Jay Ellenberger
Product Manager 12
Registration Division (TS-767)

From: Dr. Willa Garner, Chief ll
Review Section No. 1
Environmental Fate Branch
Hazard Evaluation Division (TS-769)

Attached please find the environmental fate review of:

Reg./File No.: 352-372

Chemical: Oxamyl

Methyl N',N'-dimethyl-N-[(methylcarbamoyl)oxy]-1-thioxamimidate

Type Product: Insecticide

Product Name: Vydate

Company Name: DuPont

Submission Purpose: Additional Groundwater Data

ZBB Code: other

ACTION CODE: 401

Date In: 11/20/81

EFB # 75

Date Completed: 1/8/82

TAIS (level II)

Days

60

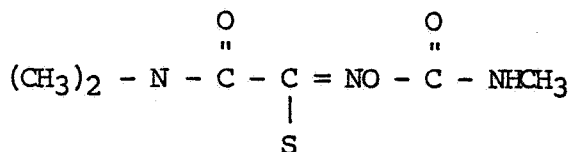
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1.0 INTRODUCTION

Vydate® L is registered for use on potatoes (as well as on other crops) for control of the Golden Nematode, and this use is currently being monitored by the registrant (DuPont) at several locations on Long Island, New York. On September 23, 1981, DuPont forwarded additional details of this ongoing groundwater monitoring program.

2.0 STRUCTURE



[Methyl N',N'-dimethyl-N-[(methylcarbamoyl)oxy]-l-thiooxamimidate]

3.0 DIRECTIONS FOR USE

See previous reviews.

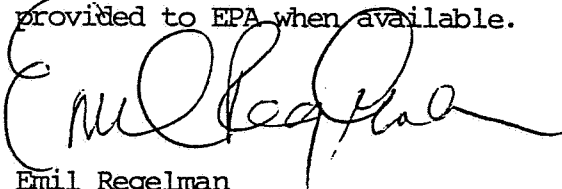
4.0 DISCUSSION

EFB reviewed this groundwater monitoring program on March 2, 1981, and full details are included therein.

In the current submission, no specific monitoring data were provided. The report, a copy of which is appended to this review, summarizes the sites which are currently being monitored as well as the kinds of samples which have been taken for analysis.

5.0 CONCLUSIONS

We assume that the results of this ongoing monitoring will be provided to EPA when available.



Emil Regelman
Chemist
EFB/HED
January 8, 1982

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E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

BIOCHEMICALS DEPARTMENT

September 23, 1981

Mr. Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)
U.S. Environmental Protection Agency
Washington, DC 20460

Dear Mr. Ellenberger:

VYDATE® L INSECTICIDE/NEMATICIDE
EPA REG. NO. 352-372
USE ON POTATOES FOR NEMATODE CONTROL IN NEW YORK STATE
GROUND WATER AND SOIL RESIDUE STUDIES

As part of our continuing effort to keep EPA informed of our actions on Long Island, New York, I am providing the following update on our monitoring activities:

SOIL SAMPLES - 1981

	<u>'81 Sample Dates</u>			<u>Depth</u>	<u>Date Planted</u>	<u>VYDATE® L In-Furrow Application Rate</u>
	<u>1st</u>	<u>2nd</u>	<u>3rd</u>			
[REDACTED]	5/1	6/24	Fall	0-8'	4/10	3 lb ai/A
[REDACTED]	5/5	6/24	Fall	0-8'	4/10	4 lb ai/A
[REDACTED]	5/6	6/24	Fall	0-4'	4/10	3 lb ai/A

All three locations applied VYDATE® L in-furrow at planting for the control of Golden Nematode in 1980 and 1981. Foliar applications of VYDATE® L were applied to control the Colorado potato beetle during the growing season. [REDACTED] and [REDACTED] locations are on the North Fork and soil samples were taken in 1980 and 1981. [REDACTED] location is on the South Fork. Water samples were taken from [REDACTED] location ([REDACTED] well) in 1980. Ground water at this location is approximately 4 ft. below the soil surface.

A 6" soil auger was used to take the samples. Three soil cores were taken from each location. The cores were started directly above where the VYDATE® L was applied in-furrow. Samples were stored frozen at the Long Island Horticultural Research Farm until they were shipped with dry ice to the Du Pont Experimental Station.

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The [redacted] farm is located on [redacted] in Cutchogue, Long Island, NY. The [redacted] farm is on [redacted] in Cutchogue, Long Island, NY. The [redacted] farm is on [redacted] in Bridgehampton, Long Island, NY

WATER SAMPLES - 1981

<u>Location</u>	<u>Dates Sampled</u>		<u>Depth of Well - Ft.</u>
[redacted]	7/24	8/26	65
[redacted]	7/24	8/26	15
[redacted]	7/24	8/26	60
[redacted]	7/24	8/26	25
[redacted]	7/24	8/26	12
[redacted]	7/24	8/26	15

The above locations were sampled in 1980 also, and their situations are described in the Du Pont report, dated December, 1980, describing the ground water analyses and soil residue determinations of oxamyl on Long Island, New York in the 1980 season (EPA Accession number 243989).

WELLS DRILLED BY SUFFOLK CO. HEALTH DEPT.

<u>Location</u>	<u>Dates Sampled</u>		<u>Depth of Well - Ft.</u>
[redacted] Well #1	7/24	8/26	These depths will be available in the final report.
[redacted] Well #2	7/24	8/26	
[redacted] Well #3	7/24	8/26	
[redacted] Well #4	7/24	8/26	

Wells were drilled by Suffolk County Health Department in 1981 on the outside of a 32 acre potato field where VYDATE® L was applied in-furrow in 1980 and 1981, plus foliar applications. Wells No. 1, 2 and 3 are located within 10 ft. of the potato field on the side of the field toward which the ground water flows. Well No. 4 is located where the farmer loads his sprayer with water and pesticides. Because of its location, Well No. 4 has the potential for becoming contaminated with spray solution containing oxamyl.

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Page 5 is not included in this copy.

Pages _____ through _____ are not included.

The material not included contains the following type of information:

- Identity of product inert ingredients.
- Identity of product impurities.
- Description of the product manufacturing process.
- Description of quality control procedures.
- Identity of the source of product ingredients.
- Sales or other commercial/financial information.
- A draft product label.
- The product confidential statement of formula.
- Information about a pending registration action.
- FIFRA registration data.
- The document is a duplicate of page(s) _____.
- The document is not responsive to the request.

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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.