US ERA ARCHIVE DOCUMENT

D173574

DP Barcode : D173568 PC Code No. :129051

EFGWB Out:

3/30/92

TO:

Cynthia Giles-Parker

Product Manager PM 22

Special Review and Reregistration Division (H7508W)

FROM:

Paul J. Mastradone, Ph.D., Section Chief

Environmental Chemistry Review Section #

Environmental Fate & Ground Water Branch/EFED (H7507C

THRU:

Henry Jacoby, Branch Chief

Environmental Fate & Ground Water Branch/EFED (H7507C

Attached, please find the EFGWB review of...

Reg./File #

: 055947-EUP-011

Common Name: SAN 582H

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Chemical Name: 2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-(2,4-dimethylthien-3-yl)-acetamide

Company Name: Sandoz Crop Protection Corporation

Purpose: Review applications for revised EUP continuation for use on field corn and soybeans, which include addition of aerial application

Type Product: Herbicide Action Code: 714 EUP EFGWB #(s): 92-0446 Review Time: 2 days

EFGWB Guideline/MRID/Status Summary Table: The review in this package contains...

161-1	162-4	164-4	166-1	
161-2	163-1	164-5	166-2	
161-3	163-2	165-1	166-3	
161-4	163-3	165-2	167-1	
162-1	164-1	165-3	167-2	
162-2	164-2	165-4	201-1	
162-3	164-3	165-5	202-1	

Y = Acceptable (Study satisfied the Guideline)/Concur P = Partial (Study partially satisfied the Guideline, but additional information is still needed)
S = Supplemental (Study provided useful information, but Guideline was not satisfied) N = Unacceptable (Study was rejected)/Non-Concur

1.0 CHEMICAL:

Common name: SAN 582H

Chemical name: 2-chloro-N-[(1-methyl-2-methoxy)ethyl]-N-(2,4-

dimethylthien-3-yl)-acetamide

Chemical Structure:

SAN 582 H

2.0 TEST MATERIAL: N/A

3.0 STUDY/ACTION TYPE:

Requests for continuation of EUP's for SAN 582H for field corn and soybeans and addition of aerial application to testing program.

4.0 STUDY IDENTIFICATION:

Letter from James Fickle, manager, Product Registration, of Sandoz Corporation, dated 15 Jan 1992, to Cynthia Giles-Parker, PM-22, Registration Division. The submission includes amount, application time, frequency and methods of application. Proposal reflects personnel changes and the addition of aerial application to the label.

5.0 REVIEWED BY:

George Tompkins
Entomologist, Review Section 1
EFGWB/EFED

Signature: Ama Towns

6.0 APPROVED BY:

Paul Mastradone Section Chief, Review Section 1 EFGWB/EFED Signature: Paul Mastrada le Date:

7.0 CONCLUSIONS:

1. The following data requirements have been satisfied for the proposed EUP:

Hydrolysis (161-1) Aerobic Soil Metabolism (162-1) Accumulation in Fish (165-4)

The following studies are required to satisfy the data requirements for the proposed EUP:

Confined Accumulation in Rotational Crops (165-1)
Leaching and Adsorption/Desorption (163-1) - supplemental study; new study has been submitted for registration

It is noted that the EUP has been modified to include aerial applications. This will trigger the requirements of Droplet Size Spectrum (201-1) and Drift Field Evaluation (202-1) studies in the full registration process.

2. ENVIRONMENTAL FATE SUMMARY

San 582H was stable to hydrolysis at pH's 5, 7, and 9 with no significant degradation of parent material after 30 days. The aerobic soil metabolism 1/2 life was 38 days with the major metabolite being oxalamide (14.8% of the applied by day 90 and decreasing to 8.5% by day 365). SAN 582H had a whole body fish bioconcentration factor of 57 and a whole body elimination 1/2 life of 10.7 days, indicating a relatively low potential to accumulate in fish. Supplemental Leaching and Adsorption/Desorption studies, with K_{ad} values ranging from 0.461-1.33 in the aged portion of the study, indicate that SAN 582H has the potential to be highly mobile in the soil.

8.0 RECOMMENDATIONS:

See Conclusions

9.0 BACKGROUND:

This is a submission of revised labelling and program for the 1992 season of corn EUP application of 30 July 1990 55947-EUP-RR(11), PP 0G3892; and soybean EUP application of 30 March 1991 55947-EUP-RG, PP 1G3980 for use of SAN 582H 7.5L herbicide. SAN 582H is a preemergence herbicide being evaluated for selective control of annual grasses, annual broadleaf weeds, and yellow nutsedge in both field corn and soybeans. Single or split applications of SAN 582H may not exceed a total of 1.5 pints per acre in one year for soybeans or 1.6 pints per acre in one crop year for corn. The proposed EUP will allow the use of 472 gallons(3540 lbs ai) of SAN 582H 7.5L on up to 3960 acres of field corn in 22 states and 452 gallons(3390 lbs ai) on up to 3920 acres of soybeans in



- 21 states (See enclosed G-2 for states and acreage).
- 10.0 DISCUSSION OF INDIVIDUAL STUDIES: N/A
- 11.0 COMPLETION OF ONE-LINER: N/A
- 12.0 CBI APPENDIX: N/A

1991 Alternate Acreage Plan for 55947-ZUP-RR (PP OG 3892)

G-2 STATES AND ACREAGE - The selected 22 states listed below for inclusion in this Experimental program represent over 95% of the U.S. corn acreage. Product will be distributed from Sandoz Crop Protection, (Des Plaines, Illinois and/or Beaumont, Texas) to program participants. Some program participants (see Section G-1) are responsible for more than one state and will distribute the material to cooperators from their home base state.

Proposed Maximum Limits of Product Use and Acres Treated by State and Estimated Number of Trial Sites

· .	1992	
	Gallons #Trials	Acres
Iowa	72 24	600
Illinois	72 24	600
Nebraska	48 16	400
Minnesota	48 16	400
Indiana	48 16	400
Ohio	24 8	200
Wisconsin	20 6	160
South Dakota	20 6	160
Michigan	20 6	160
Missouri	20 6	160
Kentucky	8 3	70
Pennsylvania	, 8 3	70
North Carolina	8 3 8 3 8 3 8 3	70
Kansas	8 3	70
Texas	<u> 8 3</u>	70
New York	3 3	70
Tennessee	B 3	70
Georgia	B 3	70
North Dakota	2	40
Colorado	8 2	40
Virginia	2	40
Maryland	4 2	40
TOTALS	472 160	3960

STATES AND ACREAGE - The selected 21 states listed below for inclusion in this Experimental program represent over 90% of the U.S. soybean acreage. Product will be distributed from Sandoz Crop Protection, (Des Plaines, Illinois and/or Beaumont, Texas) to program participants. Some program participants (see list of Participants and Cooperators) are responsible for more than one state and will distribute the material to cooperators from their home base state.

Proposed Maximum Limits of Product Use and Acres Treated by State and Estimated Number of Trial Sites

	1992 Soybean Cropping Season		1993 Soybean Cropping Seaso		
	Gallons #Trials	Acres	Gallons	#Trials	Acres
Illinois	72 24	600	72	24	600
Iowa	72 24	600	72	24	600
Missouri	48 16	400	48	16	400
Minnesota	48 16	400	48	16	400
Indiana	48 16	400	48	16	400
Ohio	40 12	320	40	12	320
Arkansas	8 3	80	- 8	3	80
Mississippi	8 3	80	B	3	80
Nebraska	16 6	160	16	6	160
Louisiana	8 3	80	8	3	80
Kansas	16 6	140	16	6	140
N. Carolina	8 3	80	8	3	80
Tennessee	8 3	80	8	3	80
S. Dakota	16 6	140	16	6	140
Michigan	8 3	80	8	3	80
Georgia N. Dakota Maryland	4 2 4 2 4 2	40 40 40	4	2 2 2	40 40 40
Wisconsin Delaware Texas	8 3 4 2 4 2	80 40 40	* 4 4	7:3 2 2 2	60 40 22
TOTALS	52 157	3920	452	.357	3936



DP Barcode: PC Code No.: EFGWB Out:

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Product Manager PM

Special Review and Reregistration Division (H7508W)

From: Paul J. Mastradone, Ph.D., Head

Environmental Chemistry Review Section #1

Environmental Fate & Ground Water Branch/EFED (H7507C)

Thru: Henry Jacoby, Chief

Environmental Fate & Ground Water Branch/EFED (H7507C)

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Attached, please	e find the EFGWB review of	
Reg./File #	:	
Chemical Name	SAN 582	
Type Product	<u> </u>	
Product Name	<u> </u>	·
Company Name	· ************************************	<u> </u>
Purpose .	*	·
Action Code	EFGWB #(s): 92-044	Total Review Time: days

EPGWB Guideline/MRID Summary Table: The review in this package contains					
161-1	162-1	164-1	165-1	166-1	
161-2	162-2	164-2	165-2	166-2	
161-3	162-3	164-3	165-3	166-3	
161-4	162-4	164-4	165-4	167-1	
201-1	163-1	164-5	165-5	167-2	
202-1	163-3				

DP BARCODE: D173574

CASE: 048242

DATA PACKAGE RECORD

SUBMISSION: S410327

BEAN SHEET

DATE: 01/27/92 Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: EUP (SECT 5) ACTION: 714 EUP NC F/F USE AMND

CHEMICALS: 129051 2-chloro-N-{(1-methyl-2-mthoxy)ethyl}-N-(2,4-dimet 0.0000%

ID#: 055947-EUP-RG

COMPANY: SANDOZ CROP PROTECTION CORORATION

227 PRODUCT MANAGER: 22 CYNTHIA GILES-PARKER 703-305-5540 ROOM: CM2

PM TEAM REVIEWER: JAMES STONE 703-305-7391 ROOM: CM2 247

LABEL: Y

RECEIVED DATE: 01/16/92 DUE OUT DATE: 05/15/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 173574 EXPEDITE: N DATE SENT: 01/27/92 DATE RET.: CHEMICAL: 129051 2-chloro-N-{(1-methyl-2-mthoxy)ethyl}-N-(2,4-dimethyl-thien

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 04/16/92 CSF: N

ASSIGNED TO IN DATE OUT DATE DIV : EFED 0/12919

BRAN: EFGB

SECT:

REVR: CONTR:

* * * DATA REVIEW INSTRUCTIONS * *

Revised program for 1992 which adds aerial application. Are there any enviormental fate concerns? Attention: Paul Mastradone

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
173571	FHB/PMT-21	01/27/92	04/16/92	Y	N	Y
173572	EEB	01/27/92	04/16/92	Y	N	Y
173575	TB-2	01/27/92	04/16/92	Y	N	Y

DP BARCODE: D173568

CASE: 281472 SUBMISSION: S410317 DATA PACKAGE RECORD

BEAN SHEET

DATE: 01/27/92 Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: EUP (SECT 5) ACTION: 714 EUP NC F/F USE AMND

CHEMICALS: 129051 2-chloro-N-{(1-methyl-2-mthoxy)ethyl}-N-(2,4-dimet 91.6200%

ID#: 055947-EUP-011

COMPANY: SANDOZ CROP PROTECTION CORORATION

PRODUCT MANAGER: 22 CYNTHIA GILES-PARKER 703-305-5540 ROOM: CM2 227 PM TEAM REVIEWER: JAMES STONE 703-305-7391 ROOM: CM2 247

RECEIVED DATE: 01/16/92 DUE OUT DATE: 05/15/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 173568 EXPEDITE: N DATE SENT: 01/27/92 DATE RET.: / / CHEMICAL: 129051 2-chloro-N-{(1-methyl-2-mthoxy)ethyl}-N-(2,4-dimethyl-thien

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 04/16/92 CSF: N LABEL: Y

ASSIGNED TO DATE IN DATE OUT DIV: EFED //9/92 //
BRAN: EFGB ////
SECT: ////
REVR: ////
CONTR: ///

* * * DATA REVIEW INSTRUCTIONS * * * *

Revised program for 1992 which adds aerial application. Are there any environmental fate concerns? Attention: Paul Mastradone

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
173565	FHB/PMT-21	01/27/92	04/16/92	Y	Y	Y
173567	EEB	01/27/92	04/16/92	Y	N	Y
173569	TB-2	01/27/92	04/16/92	Y	N	Y