

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 #1
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

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

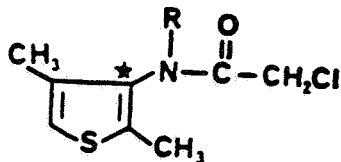
Y = Acceptable (Study satisfied the Guideline)/Concur P = Partial (Study partially satisfied the Guideline, but additional information is still needed)
S = Supplemental (Study provided useful information, but Guideline was not satisfied) N = Unacceptable (Study was rejected)/Non-Concur

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 582H

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: *George Tompkins*

Date: MAR 30 1992

6.0 APPROVED BY:

Paul Mastradone
Section Chief, Review Section 1
EFGWB/EFED

Signature: *Paul J. Mastradone*

Date: MAR 30 1992

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 OG3892; 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

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1991 Alternate Acreage Plan for 55947-EUP-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	70
Kansas	8	3	70
Texas	8	3	70
New York	8	3	70
Tennessee	8	3	70
Georgia	8	3	70
North Dakota	4	2	40
Colorado	4	2	40
Virginia	4	2	40
Maryland	4	2	40
TOTALS	472	160	3960

December 6, 1991

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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

	<u>1992 Soybean Cropping Season</u>			<u>1993 Soybean Cropping Season</u>		
	<u>Gallons</u>	<u>#Trials</u>	<u>Acres</u>	<u>Gallons</u>	<u>#Trials</u>	<u>Acres</u>
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	8	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	4	2	40	4	2	40
N. Dakota	4	2	40	4	2	40
Maryland	4	2	40	4	2	40
Wisconsin	8	3	80	8	3	80
Delaware	4	2	40	4	2	40
Texas	4	2	40	4	2	40
TOTALS	452	157	3920	452	157	3920

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DP Barcode :
PC Code No. :
EFGWB Out :

To:

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)

Pjm

Drift

129051

Attached, please find the EFGWB review of...

Reg./File # : _____

Chemical Name : SAN 582

Type Product : _____

Product Name : _____

Company Name : _____

Purpose : _____

Action Code : _____ EFGWB #(s): 92-0446 Total Review Time: _____ days

EFGWB 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					

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DP BARCODE: D173574

CASE: 048242
SUBMISSION: S410327

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 0.0000%

ID#: 055947-EUP-RG

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: 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 LABEL: Y

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	01/29/92	/ /
BRAN: EFGB	/ /	/ /
SECT:	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

Revised program for 1992 which adds aerial application. Are there any enviornmental 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

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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	01/29/92	/ /
BRAN: EFGB	/ /	/ /
SECT:	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

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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