

**SYN524464****SYN524464 FS (A16148F) – Skin Sensitization Study in Guinea Pigs****Final Report**

DATA REQUIREMENT(S): OECD Guidelines for Testing of Chemicals,
Procedure 406
EPA Health Effects Test Guidelines,
OPPTS 870.2600

AUTHOR(S): Janice O. Kuhn, Ph.D., DABT

STUDY COMPLETION DATE: August 27, 2008

PERFORMING LABORATORY: STILLMEADOW, Inc.
12852 Park One Drive
Sugar Land, TX 77478 USA

LABORATORY PROJECT ID: Report Number: 11818-08
Study Number: 11818-08
Task Number: T001113-08

SUBMITTER/SPONSOR: Syngenta Crop Protection, Inc.
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

VOLUME 1 OF 1 OF STUDY**PAGE 1 OF 18****RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS**

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STATEMENT OF DATA CONFIDENTIALITY CLAIMS

STATEMENT OF NO DATA CONFIDENTIALITY CLAIMS UNDER SPECIFIED FIFRA PROVISIONS

No claim of confidentiality is made for any information contained in this study on the basis of its falling within the scope of FIFRA Section 10(d)(1)(A) (discloses manufacturing or quality control processes), (B) (discloses the details of methods for testing, detecting or measuring the quantity of any deliberately added inert ingredient of a pesticide), or (C) (discloses the identity or percentage quantity of any deliberately added inert ingredient of a pesticide).

Company
Syngenta Crop Protection, Inc.

Company Agent: Adora Clark, Ph.D.

Adora Clark
U. S. Product Registration Manager

January 19, 2010
Date

Syngenta is the owner of this study. Syngenta has submitted this material to the United States Environmental Protection Agency specifically under the provisions contained in FIFRA as amended and, hereby, consents to use and disclosure of this material by EPA according to FIFRA. Notwithstanding the wording of our marking TRADE SECRET, this marking, by itself, conveys no supplemental claims of confidentiality under FIFRA Sections 10(a) or 10(b) (addressing protection of trade secrets and commercial and financial information). In submitting this material to EPA according to method and format requirements contained in PR Notice 86-5, we do not waive any protection or right involving this material that would have been claimed by the company if this material had not been submitted to the EPA, nor do we waive any protection or right provided under FIFRA Section 3 (concerning data exclusivity and data compensation) or FIFRA Section 10(g) (prohibiting disclosure to foreign and multinational pesticide companies or their agents).

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GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This study was designed and performed in STILLMEADOW, Inc.'s laboratory and was conducted in compliance with:

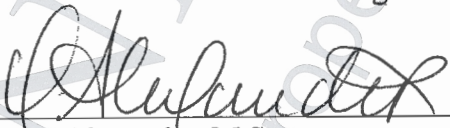
- United States Environmental Protection Agency FIFRA: Good Laboratory Practice Standards, 40 CFR 160
- United States Environmental Protection Agency TSCA 40 CFR 792
- Organization for Economic Cooperation and Development's Principles of Good Laboratory Practice, Annex 2, C(98)17
- Japan Ministry of Agriculture, Forestry and Fisheries, Notification 11-Nousan-6283, Director- General of Agricultural Production Bureau

I, the undersigned, declare that the methods, results, and data contained in this report reflect the procedures used and the raw data collected in this study, according to the protocol.


Janice O. Kuhn, Ph.D., DABT
Study Director, STILLMEADOW, Inc.

27 Aug 08
Date

Performing Laboratory: STILLMEADOW, Inc.
12852 Park One Drive
Sugar Land, TX 77478 USA


Odette Alexander, M.S.
Representative of Submitter/Sponsor

1/19/10
Date

Submitter/Sponsor: Syngenta Crop Protection, Inc.
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

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QUALITY ASSURANCE STATEMENT

Test Substance: SYN524464 FS (500)

Study Title: SYN524464 FS (A16148F): Skin Sensitization Study in Guinea Pigs

The study report and data have been audited in accordance with Good Laboratory Practice Standards and STILLMEADOW, Inc. Standard Operating Procedures (SOPs). The final report accurately reflects the study data. The Quality Assurance Unit has not been involved in the actual conduct of this study.

The Quality Assurance Unit performed a recent facility inspection on 25 Jul 08. All findings were reported to Management, and the report and responses are kept in the Quality Assurance files.

The findings from any study inspections and audits were reported to the Study Director and Management as follows:

Critical Phase Inspected	Date Inspected	Reported to Study Director	Reported to Management
Protocol Review	1 Apr 08	1 Apr 08	1 Apr 08
Observations	12 Jun 08	12 Jun 08	12 Jun 08
Report/Data Audit	19 Aug 08	19 Aug 08	19 Aug 08


Richard L. Martin, M.S., C.Ph.T.
Quality Assurance, STILLMEADOW, Inc.

27 Aug 08
Date

GENERAL INFORMATION

Contributors

The following contributed to this report in the capacities indicated:

Study Director: Janice O. Kuhn, Ph.D., DABT

Technical Staff: Carol Morris, B.A. Paul Siemens, B.A.
Robert Preston Nancy Casajuana, L.A.T.

Data Services: Connie Pavatte, Report Preparation

Study dates

Study initiation date: 14 Apr 08

Experimental start date: 11 Jun 08

Experimental termination date: 11 Jul 08

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

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The test substance produced no irritation in the test animals (Group II) or the naïve control animals (Group I) after the challenge treatment, and therefore did not elicit a sensitizing reaction in guinea pigs.

The objective of this study was to determine the sensitizing potential of the test substance using a modification of the Buehler method (H.L. Ritz and E.V. Buehler, "Planning, Conduct, and Interpretation of Guinea Pig Sensitization Patch Tests," Current Concepts in Cutaneous Toxicity, p. 25-42, Academic Press, NY, 1980), in accordance with OPPTS 870.2600, which is intended to meet testing requirements of FIFRA 7 USC 136, *et seq*, and TSCA 15 USC 2601. This study was conducted for Syngenta Crop Protection, Inc., according to the approved protocol and STILLMEADOW, Inc. SOP's. There were no deviations from the protocol which affected the quality or outcome of the study. All procedures in this study are in compliance with the Animal Welfare Act Regulations. In the opinion of the sponsor, the study did not unnecessarily duplicate any previous work. The protocol, raw data, this report and a sample of test substance are archived at STILLMEADOW, Inc. The study was initiated on 14 Apr 08, and the experimental range-finding began on 8 Jun 08. The animals were treated as follows and the study was terminated on 11 Jul 08:

Group	Induction Treatments		Challenge Treatment
	First	Last	
I Naïve Control (5/sex)	--	--	9 Jul 08
II Test (10/sex)	11 Jun 08	25 Jun 08	9 Jul 08

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3.0 MATERIALS AND METHODS

3.1 Test Substance

Reference Name: SYN524464 FS (500)
Label Identification: SYN524464 FS (500)
ID 533158
A16148F
Date & Quantity Received: 14 Apr 08; 3691 g (Gr.Wt.)
Physical Description: Pink opaque liquid
Storage: Room temperature
Purity (w/w): 45.6% active ingredient
Stability: Reassay: Mar 2009
Conc. Administered: Induction: 100% as received
Challenge: 100% as received

Records pertaining to stability, characterization, identity, synthesis methods and location of documentation are the responsibility of the sponsor. A copy of the sponsor's Analytical Report is retained in the study file.

3.2 Experimental Animals

Species & Strain: Guinea Pig; Hartley-Albino
Justification of Species: The guinea pig is the preferred species for use in dermal sensitization testing.
Source: Charles River Laboratories; Wilmington, MA
Quantity & Sex: 2/sex (Irritation Screening); 15/sex (Definitive Study); females nulliparous and non-pregnant
Acclimation Period: At least 5 days
Date Born/Date Received: 22 & 26 Apr 08 / 27 May 08
Animal Identification: Ear punch
Weight When Tested: Males: 361-441 g; Females: 327-430 g

3.3 Animal Husbandry

Cage Type: Suspended, wire bottom, stainless steel
Housing: 1-4 per cage (males separate from females)
Environmental Controls
Set to Maintain: •Temperature 20°C±3°
•12-hour light/dark cycle
•Relative Humidity 30-70%
•10-12 air changes/hour
Actual Temp/Rel. Humidity: 17-20° C / 60-98%
Protocol deviation: humidity was outside protocol range but did not affect study outcome.
Food: PMI Feeds, Inc. Guinea Pig Diet 5025; available *ad libitum*
Water: Municipal water supply analyzed by TCEQ Water Utilities Division, available *ad libitum* from water bowls

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

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Animal husbandry and housing at STILLMEADOW, Inc. comply with standards outlined in the "Guide for the Care and Use of Laboratory Animals" (NRC Publ.). No contaminants were expected to have been present in the feed or water, which would have interfered with or affected the results of the study.

3.4 Positive Control Material and Testing

Label: 1-CHLORO-2,4-DINITROBENZENE, 97%
138630-100G Batch: 10505DD
Manufacturer: Aldrich
Physical Description: White crystals
Storage: Room temperature
Purity, Composition & Stability: Certificate of Analysis available from manufacturer
Conc. Administered: Induction: 0.4 mL of 1.0% w/v solution in ethanol
Challenge: 0.4 mL of 0.45% w/v solution in acetone
Vehicle: Ethanol and acetone

The sensitivity of guinea pigs to a positive control material is confirmed in this laboratory periodically. The positive control animals used to conduct this study were supplied by Charles River Laboratories, and were tested according to the Buehler Method (Ritz, H.L. and E.V. Buehler, "Planning, Conduct, and Interpretation of Guinea Pig Sensitization Patch Tests", Current Concepts in Cutaneous Toxicity, Academic Press, NY, 1980).

STILLMEADOW, Inc. Study No. 11662-08
In-life started: 26 Mar 08; In-life completed: 25 Apr 08

Results: Data from this study are presented in Appendix A. A mean score of 0.4 for the test group after challenge treatment, when compared with naive control group mean score of 0.1, confirmed the sensitivity of guinea pigs to the positive control material.

3.5 Irritation Screening

Two male and two female albino guinea pigs were selected for irritation screening (Figure 1) to determine both the maximum dose producing no more than moderate irritation, and the maximum non-irritating dose. Concentrations tested in the screening were 100% (undiluted), and 75%, 50% and 25% v/v dilutions in deionized water, with each animal receiving 0.4 mL of each concentration at different test sites.

3.6 Animal Preparation

Five males and five females were selected for Group I, and ten males and ten females were selected for Group II. Group I animals served as a naive control group and Group II animals were designated as the test group. On the day prior to each treatment, the animals were prepared by clipping the back of the trunk free of hair to expose a longitudinal area at least 8 x 10 cm on each animal. Individual body weights were recorded on Days 0 and 31.

3.7 Test Substance Administration

Based on the results of the irritation screening, the dose administered was an application of 0.4 mL of undiluted test substance. For each induction treatment, Group II animals were treated by introducing the test substance beneath a 4 ply, 2.5 x 2.5 cm surgical gauze patch. Each gauze patch was placed laterally from the midline of the back on the left front quadrant of the exposure area (Figure 2) and secured with a strip of non-irritating adhesive tape. A strip of clear polyethylene film was placed over the patch and securely taped. Each animal was then placed in a restrainer for approximately six hours. At the end of the exposure period, the animals were removed from the restrainers, the wrappings and patches were removed, and the animals were returned to their cages. Group II animals were treated once weekly for three weeks with 0.4 mL of undiluted test substance. Induction treatments were on Days 1, 8 and 15. The same treatment regimen and test site location was used for all three induction treatments. Group I animals remained untreated during the induction phase of the study.

3.8 Challenge Treatment

After a two week rest period, all animals (Groups I and II) were each challenged at a virgin test site with an application of 0.4 mL of undiluted test substance. The challenge treatment was on Day 29. The dose was applied in a manner identical to the induction treatments, except the test site was placed laterally on the right rear quadrant of the exposure area with the edge of the gauze pad adjacent to the midline of the back (Figure 2).

3.9 Observations and Scoring Methods

Observations for skin reactions at each test site were made approximately 24 hours after each treatment. In addition, observations for skin reactions were made approximately 48 hours after the first induction treatment and 48 hours after the challenge treatment. The scoring scale used to grade skin reactions is as follows:

<u>Erythema</u>	<u>Score</u>
No reaction	0
Very faint, usually nonconfluent	0.5
Faint, usually confluent	1
Moderate	2
Strong, with or without edema	3

An average score for each time period was obtained by adding all of the scores for each time period and dividing by the number of test sites scored for that time period. The test substance is considered a sensitizer if the mean irritation scores, the total number of animals with scores, and/or the total number of scores for the virgin test site in the test group after the challenge treatment are appreciably greater than those for the naive challenge group.

3.10 Protocol Deviation

Only 3 rather than 9 treatments were performed during the induction phase of this study. A similar formulation (A16148C), differing only in the absence of the red colorant which is in SYN514464 FS (500) (A16148F), was tested undiluted in a 9-induction sensitization study. All scores during induction and challenge were zero. For this reason, it is concluded that this protocol deviation had no effect on the study outcome.

4.0 RESULTS AND DISCUSSION

Results of irritation screening are presented in Figure 1. Test site locations are presented in Figure 2. Skin reactions and average skin reaction scores during induction and challenge are presented in Tables 1 and 2, respectively. Individual body weights are presented in Table 3. The average skin reaction scores for each group at challenge are as follows:

<u>Group</u>	<u>Mean Challenge Scores</u>
Naive Control	0.0
Test	0.0

5.0 CONCLUSIONS

The test substance, SYN524464 FS (500) (A16148F), produced no irritation in the test animals (Group II) or the naive control animals (Group I) after the challenge treatment, and therefore did not elicit a sensitizing reaction in guinea pigs.

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

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TABLES SECTION

TABLE 1 Skin Reaction Scores

SKIN SENSITIZATION IN GUINEA PIGS

Test Substance: SYN524464 FS (500)

Animal #	Hours After Day of Treatment				Challenge	
	Induction Treatments				RR	
	LF				Day 29	
	Day 1		Day 8	Day 15		
	24 hr	48 hr	24 hr	24 hr	24 hr	48 hr
Group I – Naive Control						
91-M					0	0
92-M					0	0
93-M					0	0
94-M					0	0
95-M					0	0
96-F					0	0
97-F					0	0
98-F					0	0
99-F					0	0
100-F					0	0
Group II – Test Group						
101-M	0	0	0	0	0	0
102-M	0	0	0	0	0	0
103-M	0	0	0	0	0	0
104-M	0	0	0	0	0	0
105-M	0	0	0	0	0	0
106-F	0	0	0	0	0	0
107-F	0	0	0	0	0	0
108-F	0	0	0	0	0	0
109-F	0	0	0	0	0	0
110-F	0	0	0	0	0	0
111-M	0	0	0	0	0	0
112-M	0	0	0	0	0	0
113-M	0	0	0	0	0	0
114-M	0	0	0	0	0	0
115-M	0	0	0	0	0	0
116-F	0	0	0	0	0	0
117-F	0	0	0	0	0	0
118-F	0	0	0	0	0	0
119-F	0	0	0	0	0	0
120-F	0	0	0	0	0	0
M – Male; F – Female; LF – Left Front test site; RR – Right Rear test site						
Note: Observations were made for erythema.						

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TABLE 2 Average Skin Reaction Scores

SKIN SENSITIZATION IN GUINEA PIGS

Test Substance: SYN524464 FS (500)

		Hours After Day of Treatment					
		Induction Treatments				Challenge	
		LF				RR	
		Day 1		Day 8		Day 15	
		24 h	48 h	24 h	24 h	24 h	48 h
Group I	Naive Control						
						0.0	0.0
Mean						0.0	
Group II	Test Group	0.0	0.0	0.0	0.0	0.0	0.0
Mean		0.0		0.0	0.0	0.0	
LF - Left Front test site							
RR - Right Rear test site							

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TABLE 3 Body Weights

SKIN SENSITIZATION IN GUINEA PIGS

Test Substance: SYN524464 FS (500)

Animal Number	Day of Study	
	Day 0	Day 31
Group I - Naive Control		
91-M	397	584
92-M	441	580
93-M	365	630
94-M	363	624
95-M	408	590
96-F	344	518
97-F	412	564
98-F	381	550
99-F	358	571
100-F	331	416
Group II – Test		
101-M	428	662
102-M	378	694
103-M	407	554
104-M	415	564
105-M	403	688
106-F	367	461
107-F	335	404
108-F	374	427
109-F	352	497
110-F	357	460
111-M	361	621
112-M	394	634
113-M	423	632
114-M	425	552
115-M	411	631
116-F	341	423
117-F	430	521
118-F	361	454
119-F	373	468
120-F	418	430
M – Male; F – Female		
Note: Body weights are in grams.		

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TABLE 4 Positive Control Study Skin Reaction Scores

SKIN SENSITIZATION IN GUINEA PIGS

Study No: 11662-08

Positive Control Material: DNCB

Animal Number	Hours After Day of Treatment					
	Induction Treatments LF				Challenge RR	
	Day 1		Day 8	Day 15	Day 29	
	24 h	48 h	24 h	24 h	24 h	48 h
Group I – Naive Control						
141-M					0	0
142-M					0.5	0
143-M					0	0
144-M					0	0
145-M					0	0
146-F					0	0
147-F					0	0
148-F					0.5	0
149-F					0.5	0
150-F					0	0
Group II – Test Group						
151-M	0.5	0	0.5	0.5	0.5	0
152-M	0.5	0	0.5	0.5	0.5	0
153-M	0	0	0.5	0.5	0.5	0.5
154-M	0.5	0	0.5	0.5	0.5	0.5
155-M	0	0	0.5	0.5	0.5	0
156-F	0.5	0	0.5	0.5	0.5	0.5
157-F	0	0	0.5	0.5	0.5	0
158-F	1	0	0.5	0.5	0.5	0
159-F	0	0	0	0.5	0.5	0
160-F	0	0	0	0.5	0.5	0
M – Male; F – Female						
LF – Left Front test site; RR – Right Rear test site						
Note: Observations were made for erythema						

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

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TABLE 5 Positive Control Study Average Skin Reaction Scores

SKIN SENSITIZATION IN GUINEA PIGS

Study No: 11662-08

Positive Control Material: DNCB

		Hours After Day of Treatment					
		Induction Treatments LF				Challenge RR	
		Day 1		Day 8		Day 29	
		24 h	48 h	24 h	24 h	24 h	48 h
Group I	Naive Control						
						0.2	0.0
Mean						0.1	
Group II	Test Group						
		0.3	0.0	0.4	0.5	0.5	0.5
Mean		0.2		0.4	0.5	0.4	
LF - Left Front test site; RR - Right Rear test site							

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FIGURES SECTION

FIGURE 1 Irritation Screening

Date of Dosing: 9 Jun 08

Note: A dose of 0.4 mL/site was used for each concentration.

Each dilution was % v/v in deionized water.

81-M	
1	2
3	4

1 = 100%

82-M	
4	1
2	3

2 = 75%

83-F	
3	4
1	2

3 = 50%

84-F	
2	3
4	1

4 = 25%

Animal Number	Body Wt (g)	Observation Time After Treatment							
		24 Hour Score*				48 Hour Score*			
		Front Site		Rear Site		Front Site		Rear Site	
81-M	406	0	0	0	0	0	0	0	0
82-M	409	0	0	0	0	0	0	0	0
83-F	394	0	0	0	0	0	0	0	0
84-F	327	0	0	0	0	0	0	0	0

* - Observations made for erythema; M - Male; F - Female

Level Selected for Induction: 100%

Level Selected for Challenge: 100%

FIGURE 2 Test Site Locations

HEAD OF ANIMAL	
LF	
	RR

LF - Left Front Test Site; RR - Right Rear Test Site

RESULTADOS DE TESTES E OUTROS DADOS NÃO DIVULGADOS

Report Number: 1818-08

Estas informações, resultados de testes e outros dados não divulgados são confidenciais e de propriedade da NUNO DE CULTIVOS LTDA., protegidos na forma da Lei 10.603/02 e do artigo 195, IV, da Lei 9.279/96.

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Todos os infratores poderão ser processados civil e criminalmente

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Date _____