

Document Processing Desk (APPL) Office of Pesticide Programs U.S. Environmental Protection Agency Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attn: Dr. Alan Reynolds

Subject: Application for registration of Bt11 x MIR162 corn

Dear Dr. Reynolds:

Please find enclosed our application for registration of the new plant-incorporated protectant (PIP) product, Bt11 x MIR162 corn. Bt11 x MIR162 corn is a combined insecticidal trait hybrid producing the Cry1Ab and Vip3Aa20 proteins from *Bacillus thuringiensis*. This combined trait hybrid is produced by a conventional breeding cross of event Bt11 corn with event MIR162 corn. Event Bt11 is a currently registered PIP and an application for registration of MIR162 corn is being submitted to the Agency concurrently with this one. We believe the requested regulatory action falls under fee category B88 (70 FR 32334). An application for registration of Bt11 x MIR162 x MIR604 corn is also being concurrently submitted to the Agency.

This application relies on the safety assessments that have already been conducted by EPA for the single trait parental event, Bt11 and the upcoming safety assessment of MIR162. Data supporting these earlier assessments are referenced in the enclosed Data Matrix and are referenced by MRID. Data volumes being submitted with this application characterize the genetic insert in Bt11 x MIR162, quantify the levels of Cry1Ab and Vip3Aa20 (as well as PAT and PMI) being produced, demonstrate product efficacy, address ecological risk, and describe an insect resistance management plan.

This application is comprised of eleven volumes plus a transmittal document. Volume 1 contains administrative materials and a product label. Three copies of each volume are being submitted. Should you have any questions regarding this application please contact me directly at: 919-765-5059. Thank you in advance for your review and acceptance of this application.

Sincerely,

aih Durder

Erik Dunder Regulatory Affairs Manager Syngenta Biotechnology, Inc. 3054 Cornwallis Rd. Research Triangle Park, NC 27709-2257 E-mail: erik.dunder@syngenta.com Fax: (919) 541-8585



TRANSMITTAL DOCUMENT

Submitter

Syngenta Seeds, Inc. – Field Crops - NAFTA P.O. Box 12257 3054 E. Cornwallis Road Research Triangle Park, NC 27709

Regulatory Action in Support of Which This Document is Submitted

Registration for a Plant-incorporated Protectant Pursuant to FIFRA §3(c)(7)(C): Bacillus thuringiensis Cry1Ab and Vip3Aa20 Proteins and the Genetic Material Necessary for Their Production in Bt11 x MIR162 Corn

EPA File Symbol 67979-___

Transmittal Date

May 17, 2007

Applicant Reference No.

Bt11x162-EPA-1

List of Accompanying Volumes

Vol.	Category ¹	Volume/Study Title	MRID
		Dunder, E. (2007). Administrative materials in support of	
		application for registration of Bt11 x MIR162 corn.	
1	А	Bt11x162-EPA-1	
1	С	Confidential Attachment to above volume	
		Deframond, K. (2007). Comparative Southern analysis of	
		a Bt11 x MIR162 x GA21 maize hybrid with the individual	
2	В	Bt11, MIR162 and GA21 event hybrids. SSB-111-07	
		McDonald, J. (2007). Comparison of transgenic protein	
		expression in event Bt11, event MIR162, event GA21 and	
		stacked Bt11 x MIR162 x GA21 maize (corn) hybrids.	
3	В	SSB-010-07	
		Raybould, A. (2007). The Environmental Fate and Potency	
		of the Insecticidal Proteins Cry1Ab and Vip3Aa20 in Bt11	
4	В	x MIR162 Stacked Maize Hybrids. SSB-524-07	
		White, J., J. Sagers, and M. Meghji (2007). Insecticidal	
		Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid	
5	В	Against European Corn Borer in the Field. SSB-512-07	
		White, J., J. Sagers, and M. Meghji (2007). Insecticidal	
		Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid	
6	В	Against Corn Earworm in the Field. SSB-514-07	
		White, J., J. Sagers, and M. Meghji (2007). Insecticidal	
		Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid	
7	В	against Fall Armyworm in the Field. SSB-516-07	
		Kurtz, R., A. McCaffery and E. Dunder (2007). Insect	
		Resistance Management Considerations for Bt11 x	
8	В	MIR162 maize. SSB-519-07	
		E. Dunder (2007). Literature references supporting the	
		application for registration of Bt11 x MIR162 corn - 1 of 3.	
9	В	Bt11x162-EPA-1-VOL9	
		E. Dunder (2007). Literature references supporting the	
		application for registration of Bt11 x MIR162 corn - 2 of 3.	
10	В	Bt11x162-EPA-1-VOL10	
		E. Dunder (2007). Literature references supporting the	
		application for registration of Bt11 x MIR162 corn - 3 of 3.	
11	В	Bt11x162-EPA-1-VOL11	

1 - Categorization code for placement of documents in the Public Docket



Volume 1

Administrative Materials in Support of the Application for Registration of the Plant-incorporated Protectants in Bt11 x MIR162 Corn

<u>Author</u>

Erik M. Dunder

Submission Date

May 17, 2007

Submitter

Syngenta Seeds, Inc. – Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Road Research Triangle Park, NC 27709 USA

Submitter Reference No.

Bt11x162-EPA-1

Volume 1 of 11

Statement of Data Confidentiality Claim

A claim of confidentiality is being made for information in this volume on the basis of its falling within the scope of FIFRA 10(d)(1)(A), (B), or (C). This material is being submitted to EPA according to method and format specifications contained in PR Notice 86-5 and 40 CFR §158.33.

Company: Syngenta Seeds, Inc. - Field Crops - NAFTA

Company Agent:

h Durole

Erik M. Dunder Regulatory Affairs Manager

Date: May 17, 2007

Table of Contents

Statement of Data Confidentiality Claim	2
Section I: Administrative Forms	4
Section II. Summary of the Application	54
Section III. Product Label	55
Section IV. Product Analysis	56
Section V. Residue Data	72
Section VI. Nontarget Organism Data	73
Section VII. Toxicology Data	74
Section VIII. Efficacy Data	75

Section I: Administrative Forms

Application for Pesticide Registration (Form 8570-1)

Confidential Statement of Formula (Form 8570-4)

Certification with Respect to Citation of Data (Form 8570-34)

Data Matrix (Form 8570-35)

Please read instructions on reverse before	ore completing form.			F	orm Ap	proved.	OMB No.	2070-0060). Appr	oval Expires 2	2-28-95
0504	U	nited S	States			X	Regist	tration	OP	P Identifier Nu	umber
₽EPA	Environmenta						Amen	dment			
	Washi	ngton,	DC 2046	50			Other				
	Applica	ation	for P	esticide – S	Secti	on I					
1. Company/Product Number 67	/979-			2. EPA Produc	ct Mana Alan I	-	olds	3	. Propos	sed Classifica	ation
Company/Product (Name) Bt11 x MI	R162 Corn			PM #	R	PPD			× No	one Res	stricted
5. Name and Address of Applicant (Inc				6. Expedited			accordance	with FIFR	A Secti	on 3(c)(3)(B)((i).
Syngenta Seeds, Inc Field P.O. Box 12257, 3054 East C Research Triangle Park, NC	Crops - NAFTA Cornwallis Road			my product is s EPA Reg. No	similar c	or identi	cal in comp	osition and	d labelin	ig to:	() /
Check if this is a new address	21109			Product Nam	e						
			Sect	ion – II							
Amendment – Explain below			0000		Fina	al printe	ed labels in	response t	to		
					-	-	ter dated _				
Resubmission in response to	Agency letter dated _			— _	1		Application.				
Notification – Explain below.					Oth	ner – Ex	plain below				
Application for registration of and the genetic materials neces PROPOSED FEE CATEGOR	ssary for their prod	luctior	1 in Bt1 de regis	1 x MIR162 c tration service	corn.	-	-		-	und vipor	1u20,
4 Material This Deaderst Will Da Da			Secti	on – III							
1. Material This Product Will Be Pac Child-Resistant Packaging	Unit Packaging			Water Soluble F	Packadir	na	2. Ty	ype of Cor	ntainer		
Yes*	Yes			Yes	uonugn	9		Metal			
No	No			No				Plastic			
* Certification must	 I℃Yes"	No. pe	ər	If "Yes"	No.	per		Glass Paper			
be submitted	Unit Packaging wgt.	Conta	iner	Package wgt.	Cor	ntainer		Other			
		i					(Spe				
3. Location of Net Contents Information	١	4. Size	e(s) Reta	il Container			ation of Lab n Label	el Directio	ns		
Label Container							n Labeling a	accompan	vina pro	oduct	
6. Manner in Which Label is Affixed to	Product		Lithograp	h		Other	0	•	, ,,,		
		ı [Paper glu	ed							
			Stenciled								
1. Contact Point (Complete items direct	tly below for identificati	ion of in		on – IV	fneces	sarv to	process this	s annlicati	on)		
Name			Title	0.00.0011100100, 1	1100000	<i>Sury</i> , <i>to</i>	<i>process and</i>	Telepho	/	o. (Include	Area
Dennis Wa	ard			Regulatory A	ffairs	Mana	ger	Code)	(919)	597-3096	
I certify that the statements I have I acknowledge that any knowingly	e made on this form and		achments						<u>`</u>	 Date Appli Received 	ication
both under applicable law.		-								(Stampe	d)
2. Signature Caih Cu	where		3. Title	Regulatory	, Affai	irs Ma	nager			(
4. Typed Name			5. Date								
	Tel. (919) 765-505			May 17, 20							
EPA Form 8570-1 (Rev. 3-94) Previo		lete.	Whit	e - EPA File Co		jinal)	Yellow - A	Applicant			
Syngenta Seeds, Inc Field Ci	cops – NAFTA			Bt11x162-EPA	A- 1				Р	age 5 of 82	

Confidential Statement of Formula

{CBI Cross Reference Number 1}



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S. W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC, 20460. Do not send the completed form to this address.

Do not send the completed form to this address.								
Certification with Respect to Citation of Data								
Applicant's/Registrant's Name, Address, and Telephone Number:		EPA Registration Number / File Symbol:						
Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, R NC 27709 (919) 765-5059	67979-							
Active Ingredient(s) and/or representative test compound(s): <i>B.t.</i> Cry1A and the genetic material necessary for their production in Bt11 x		Date:						
		May 17, 2007						
General Use Pattern(s) (list all those claimed for this product using 40 CF	R Part 158:	Product Name:						
Terrestrial field crop		Bt11 x MIR162 corn						
NOTE: If your product is a 100% repackaging of another purchased E need to submit this form. You must submit the Formulator's Exemption S	tatement (EPA Form 8570-27	·).						
I am responding to a Data-Call-in Notice, and have included with should be used for this purpose).	n this form a list of companies	sent offers of compensation (the Data Matrix form						
SECTION I: METHOD OF DAT	A SUPPORT (Check one	method only)						
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix Form should be used for this purpose). I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).								
SECTION II: GE	NERAL OFFER TO PAY							
[Required if using the cite-all method or when using the cite-all c	ption under the selective met	hod to satisfy one or more data requirements]						
I hereby offer and agree to pay compensation, to other persons,	with regard to the approval of	f this application, to the extent required by FIFRA.						
SECTION I	I: CERTIFICATION							
I certify that this application for registration, this form for reregistration, the application for registration, the form for registration, or the Data-Call-I method is indicated in Section 1, this application is supported by all data i identical or substantially similar product, one or more of the ingredients in under the data requirements in effect on the date of approval of this appli similar composition and uses.	n response. In addition, if the n the Agency's files that (1) co this product; and (2) is a type	cite-all option or cite-all option under the selective oncern the properties or effects of this product or an of data that would be required to be submitted						
I certify that for each exclusive use study cited in support of this re- obtained the written permission of the original data submitter to cite that s		t I am the original data submitter or that I have						
I certify that for each study cited in support of this registration or submitter; (b) I have obtained the permission of the original data submit compensation have expired for the study; (d) the study is in the public have offered (i) to pay compensation to the extent required by section determine the amount and terms of compensation, if any, to be paid for the	tter to use the study in support iterature; (e) I have notified in ns 3(c)(1)(F) and/or 3(c)(2)(E	ort of this application; (c) all periods of eligibility for n writing the company that submitted the study and						
accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are avail	I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel, or suspend the registration of my product in conformity with FIFRA.							
I certify that the statements I have made on this form and all knowingly false of misleading statement may be punishable by fine								
	Date	Typed or Printed Name and Title						
Caih Curder	May 17, 2007	Erik M. Dunder, Regulatory Affairs Manager						
EPA Form 8570-34 (9-97) Electronic and Paper Versions available. Submit only Pa	per version.							

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

response for reregistration and s other aspect of this collection of	ice: The public reporting burden for this collection of inf special review activities, including time for reading the in information, including suggestions for reducing the burd , DC 20460. Do not send the form to this address.	structions and compl	eting the necessary form	s. Send com	ments regarding the burd	en estimate or any
	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 1 of 23
	Crops - NAFTA, P.O. Box 12257, Research Trian	0			Bt11 x MIR162 Corn	
	ensis Cry1Ab protein and Vip3Aa20 protein and t	<u> </u>	l necessary for their p	oduction in		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
Volumes Specifically S	upporting the Combined Plant-Incorpo	orated Protecta	ants in the New P	roduct, B	t11 x MIR162 Cor	n
N/A	Dunder, E. (2007). Administrative materials in support of the application for registration of the Cry1Ab and Vip3Aa20 plant-incorporated protectants in Bt11 x MIR604 corn	N/A	Syngenta Seeds, Inc. – 1 NAFTA	Field Crops -	OWN	Volume 1 of this submission
151-20, 151-21, 151-22, 151-26 885.1100, 885.1200, 885.1300, 885.2100	Deframond, K. (2007). Comparative Southern analysis of a Bt11 x MIR162 x GA21 maize hybrid with the individual Bt11, MIR162 and GA21 event hybrids. SSB- 111-07		Syngenta Seeds. Inc. –F NAFTA	Field Crops -	OWN	Volume 2 of this submission
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	McDonald, J. (2007). Comparison of transgenic protein expression in event Bt11, event MIR162, event GA21 and stacked Bt11 x MIR162 x GA21 maize (corn) hybrids. SSB-010-07		Syngenta Seeds	, Inc.	OWN	Volume 3 of this submission
885. Group D	Raybould, A. (2007). The Environmental Fate and Potency of the Insecticidal Proteins Cry1Ab and Vip3Aa20 in Bt11 x MIR162 Stacked Maize Hybrids. SSB-524-07		Syngenta Seeds, Inc. – I NAFTA	Field Crops -	OWN	Volume 4 of this submission
N/A	White, J., Sagers, J. and M. Meghji (2007). Insecticidal Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid Against European Corn Borer in the Field. SSB-512-07		Syngenta Seeds, Inc. – I NAFTA	Field Crops -	OWN	Volume 5 of this submission
N/A	White, J., Sagers, J. and M. Meghji (2007). Insecticidal Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid Against Corn Earworm in the Field. SSB-514-07		Syngenta Seeds, Inc. – I NAFTA	Field Crops -	OWN	Volume 6 of this submission
Signature Each	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

	DA	IA MAIRIX				
Date: May 17, 2007				EPA Reg. N	lo./File Symbol: 67979-	Page 2 of 23
Applicant's/Registrant's Name	& Address:				,	
	d Crops - NAFTA, P.O. Box 12257, Research Trian	<u> </u>			Bt11 x MIR162 Corn	
Ingredient Bacillus thuring	iensis Cry1Ab protein and Vip3Aa20 protein and th	e genetic material	necessary for their pro	duction in o	corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
N/A	White, J., Sagers, J. and M. Meghji (2007). Insecticidal Efficacy of a Bt11 x MIR162 x GA21 Maize Hybrid against Fall Armyworm in the Field. SSB-516-07		Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Volume 7 of this submission
N/A	Kurtz, R., A. McCaffery and E. Dunder (2007) Insect Resistance Management Considerations for Bt11 X MIR162 Corn. SSB-519-07		Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Volume 8 of this submission
N/A	E. Dunder (2007). Literature references supporting the application for registration of Bt11 x MIR162 corn - 1 of 3. Bt11x162-EPA-1-VOL9		Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Volume 9 of this submission
N/A	E. Dunder (2007). Literature references supporting the application for registration of Bt11 x MIR162 corn - 2 of 3. Bt11x162-EPA-1-VOL10		Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Volume 10 of this submission
N/A	E. Dunder (2007). Literature references supporting the application for registration of Bt11 x MIR162 corn - 3 of 3. Bt11x162-EPA-1-VOL11		Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Volume 11 of this submission
OPPTS 885-4340	O'Reilly, D. (2006). Bioassay for interactions between Vip3A and full-length Cry1Ab in <i>Heliothis virescens</i> (Lepidoptera: Noctuidae). Syngenta Seeds Biotechnology Report No. SSB-155-05.	47017621	Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Submitted December 14, 2006
OPPTS 885-4340	O'Reilly, D. (2006). Bioassay for interactions between Vip3A and full-length Cry1Ab in <i>Helicoverpa zea</i> (Lepidoptera: Noctuidae). Syngenta Seeds Biotechnology Report No. SSB-155-06.	47017622	Syngenta Seeds, Inc. – F NAFTA	ield Crops -	OWN	Submitted December 14, 2006
Signature East	Dunker		Name and Title Erik M. Dunder, Regulatory Affairs M	lgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

€EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg. N 67979-	lo. / File Symbol:	Page 3 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Trian	gle Park, NC 2770)9	Product: Bt11 x MI	R162 Corn	
Ingredient Bacillus thuringie	ensis Cry1Ab protein and Vip3Aa20 protein and th	e genetic material	necessary for their pro	duction in c	corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
Data Supporting MIR16	52 & Vip3Aa20					
885.4050	Pedersen, C. (1999). Acute avian oral toxicity (LD50) study with VIP3A-0198 in bobwhite quail. BLAL 160-001-03	457665-08	Syngenta Seeds	, Inc	OWN	Submission dated September 24, 2002
885.4340	Teixeira, D. (2002). Assessment of chronic toxicity of VIP3A maize (corn) pollen and VIP3A/Cry1Ab maize pollen to the pink-spotted lady beetle (<i>Coleomegilla maculata</i>). 1781.6623	457665-09	Syngenta Seeds	, Inc	OWN	Submission dated September 24, 2002
885.4240	Putt, A. (2002). VIP3A maize (corn) pollen –acute toxicity to daphnids (<i>Daphnia magna</i>) under static-renewal conditions. 1781.6616	457921-01	Syngenta Seeds	, Inc	OWN	Submission dated October 29, 2002
885. Group D	Teixeira, D. (2002). VIP3A maize (corn) leaf protein – acute toxicity to earthworms (<i>Eisenia foetida</i>). 1781.6615	457921-02	Syngenta Seeds	, Inc	OWN	Submission dated October 29, 2002
885.4340	Privalle, L. (2002). Impact of VIP3A and Cry1Ab transgenic maize (corn) leaf tissue on 28-day survival and reproduction of Collembola (<i>Folsomia candida</i>). SSB-006-01	458358-10	Syngenta Seeds	, Inc	OWN	Submission dated December 23, 2002
Signature	Dunker		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

•	DA	TA MATRIX				
Date: May 17, 2007				67979-	No. / File Symbol:	Page 4 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	& Address: 1 Crops - NAFTA, P.O. Box 12257, Research Trian	ngle Park, NC 277	09	Product: Bt11 x M	IIR162 Corn	
Ingredient Bacillus thuringi	ensis Cry1Ab protein and Vip3Aa20 protein and th	e genetic material	necessary for their pro	oduction in	l corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885.5200	Privalle, L. (2002). Biological activity of VIP3A maize (corn) leaf protein (sample LPPACHA-0199) in various soils. SSB-006-01	458358-11	Syngenta Seeds	, Inc	OWN	Submission dated December 23, 2002
885.1100 885.1200	Ward, D. (2006). Application for an experimental use permit for event MIR162 corn. MIR162-EPA-2	468648-00	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.1100 885.1200 885.1300 885.2100	Long, N. and D. Pulliam (2006). Molecular characterization of event MIR162 maize. SSB-127-06	468648-01	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.1100 885.1300 885.1400 885.2100 885.2200	Graser, G. and C. Stacey (2006). Characterization of Vip3A protein expressed in event MIR162-derived maize (corn) and comparison with microbially-produced and plant-derived Vip3A test substance. SSB-017-06	468648-02	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.1400	Graser, G. (2004). Characterization of Vip3A protein test substance (VIP3A-0104) and certificate of analysis. SSB-026-04	468648-03	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.1400	Graser, G. (2004). Characterization of Vip3A protein test substance (VIP3A-0204) and certificate of analysis. SSB-029-04	468648-04	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
Signature	Dunker		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007	
			1			sternel Llee Ceny

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

	DA	ATA MATRIX				
Date: May 17, 2007				67979-	o. / File Symbol:	Page 5 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Trian	ngle Park, NC 277()9	Product: Bt11 x MIF	R162 Corn	
Ingredient Bacillus thuringie	ensis Cry1Ab protein and Vip3Aa20 protein and th	ne genetic material	necessary for their pro	duction in c	orn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885.1400	Graser, G. (2005). Re-characterization of Vip3A protein test substance (VIP3A-0204) and certificate of analysis. SSB-023-05	468648-05	Syngenta Seeds,	, Inc	OWN	Submission dated June 7, 2006
885.2100 885.2200	Privalle, L. (2002). Characterization of Vip3A protein produced in Pacha-derived maize (corn) and comparison with Vip3A protein expressed in recombinant <i>Escherichia</i> <i>coli</i> . SSB-004-00	468648-06	Syngenta Seeds,	, Inc	OWN	Submission dated June 7, 2006
885.2300	Hill, K. (2006). Analytical method for the detection of Vip3Aa20 protein in maize tissues from event MIR162. SSB-126-06	468648-07	Syngenta Seeds,	, Inc	OWN	Submission dated June 7, 2006
885. 3050	Harper, B. (2006). Vip3A as expressed in event MIR162 maize: Assessment of amino acid sequence homology with known toxins. SSB-112-06	468648-08	Syngenta Seeds,	, Inc	OWN	Submission dated June 7, 2006
885. 3400	Harper, B. (2006). Vip3A as expressed in event MIR162 maize: Assessment of amino acid sequence homology with known allergens. SSB-115-06	468648-09	Syngenta Seeds,	, Inc	OWN	Submission dated June 7, 2006
Signature	Durch		Name and Title Erik M. Dunder, Regulatory Affairs N	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

	DA	TA MATRIX				
Date: May 17, 2007				67979-	Io. / File Symbol:	Page 6 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Triar	ngle Park, NC 2770	9	Product: Bt11 x MI	R162 Corn	
Ingredient Bacillus thuringie	nsis Cry1Ab protein and Vip3Aa20 protein and th	e genetic material	necessary for their pro	duction in o	corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885. Group D	Raybould, A. (2006). Environmental safety assessment of insecticidal proteins in MIR162 maize and in Bt11xMIR162 and Bt11xMIR162xMIR604 stacked maize hybrids.	468648-12	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.4340	Vinall, S. (2006). A laboratory test of the effects of microbially-produced Vip3A protein (Syngenta designated test item Vip3A-0104) on the predatory bug, <i>Orius insidiosus</i> (Hemiptera: Heteroptera: Anthocoridae). SYN-04-24	468648-14	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.4340	Vinall, S. (2006). A laboratory test of the effects of microbially-produced Vip3A protein (Syngenta designated test item Vip3A-0104) on the green lacewing <i>Chrysoperla carnea</i> (Neuroptera: Chrysopidae). SYN-04-32	468648-15	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
885.4340	Lee, et al. (2003). The mode of action of the <i>Bacillus</i> <i>thuringiensis</i> vegetative insecticidal protein Vip3A differs from that of Cry1Ab δ-endotoxin. <i>Appl. Environ.</i> <i>Microbial.</i> 69 : 4648-4657. MIR162-EPA-2-VOL14	468808-01	Syngenta Seeds	, Inc	PL	Submission dated June 7, 2006
885.4340	Vinall, S. (2006). A laboratory test of the acute effects of a partially-purified preparation of microbially-expressed Vip3A protein (VIP3A-0204) on adults of the ladybird beetle, <i>Coccinella septempunctata</i> (Coleoptera: Coccinellidae). SYN-04-23	468808-02	Syngenta Seeds	, Inc	OWN	Submission dated June 7, 2006
Signature	Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

	DA	ATA MATRIX			
Date: May 17, 2007				EPA Reg. No. / File Symbol: 67979-	Page 7 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Trian	ngle Park, NC 277(Product: 3t11 x MIR162 Corn	
Ingredient Bacillus thuringie	ensis Cry1Ab protein and Vip3Aa20 protein and th	ne genetic material	necessary for their produ	action in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	Mroczkiewicz, S. and D. Ward (2006). Field efficacy evaluations with event MIR162 corn in 2005. MIR162- EPA-2-VOL18	468808-03	Syngenta Seeds, In	nc OWN	Submission dated June 7, 2006
	Ward, D. (2006). Literature references supporting the application for an experimental use permit for event MIR162 corn. MIR162-EPA-2-VOL19	468808-04	Syngenta Seeds, In	nc PL	Submission dated June 7, 2006
885. 5200	Graser, G. and S. Song (2006). Analysis of Vip3A or Vip3A-like proteins in six different commercial microbial <i>Bacilus thuringiensis</i> products. SSB-036-06	470176-13	Syngenta Seeds, Inc	nc. OWN	Submission dated December 14, 2006
885.4200	Cafarella, M. (2005). Channel catfish (<i>Ictalurus punctatus</i>) feeding study with Vip3A maize (corn) fish feed. 1781.6617	470176-24	Syngenta Seeds, Ind	ıc. OWN	Submission dated December 14, 2006
885.5200	Kramer, C. (2006). Biological activity of Vip3A maize (corn) leaf protein (sample LPPACHA-0199) in various soils – Amended report No. 1. SSB-016-02 A1	470176-30	Syngenta Seeds, Inc	ıc. OWN	Submission dated December 14, 2006
Signature	Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs Mg	Date May 17, 2007 gr.	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, *1200 Pennsylvania Avenue, N.W.*, Washington, DC 20460. Do not send the form to this address.

, , , , , , , , , , , , , , , , , , ,	De not send the form to this a	TA MATRIX				
Date: May 17, 2007				EPA Reg. N 67979-	lo. / File Symbol:	Page 8 of 23
Applicant's/Registrant's Name &				Product:		
	Crops - NAFTA, P.O. Box 12257, Research Trian				R162 Corn	
° 0	ensis Cry1Ab protein and Vip3Aa20 protein and th	U	<i>j</i> 1			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885.1100	Ward, D. (2007). Application for manufacturing use registration of MIR162 corn. MR1162-EPA-12		Syngenta Seeds	s, Inc	OWN	Volume 1 of MIR162 submission dated May 17, 2007
885.1100 885.1300 885.1400 885.2100 885.2200	Graser, G. and C. Stacy (2006). Characterization of microbially-produced Vip3A test substance MIR162VIP3A-0106 and comparison with Vip3A expressed in event MIR162-derived maize (corn). SSB- 023-06		Syngenta Seeds	s, Inc	OWN	Volume 2 of MIR162 submission dated May 17, 2007
885.2100	Long, N. (2007). Molecular characterization of the transgenic DNA in event MIR162 maize. SSB-119-07		Syngenta Seeds	, Inc.	OWN	Volume 4 of MIR162 submission dated May 17, 2007
885.1100 885.1200 885.1300 885.2100 885.2200	Graser, G. and C. Stacy (2007). Supplemental information for study SSB-004-00: Characterization of Vip3A protein produced in Pacha-derived maize (corn) and comparison with Vip3A protein expressed in recombinant <i>Escherichia coli</i> . SSB-122-07		Syngenta Seeds	, Inc.	OWN	Volume 5 of MIR162 submission dated May 17, 2007
885.2500 885.5200	Hill, K. (2006). Quantification of Vip3Aa20 and phosphomannose isomerase (PMI) in tissues of maize derived from transformation event MIR162. SSB-020-06		Syngenta Seeds	, Inc.	OWN	Volume 6 of MIR162 submission dated May 17, 2007
Signature	Durker		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

,,,,,,,,,,,,,.,,.,,,.,,,,	DA	TA MATRIX				
Date: May 17, 2007				67979-	No. / File Symbol:	Page 9 of 23
Applicant's/Registrant's Name Syngenta Seeds, Inc Field			IR162 Corn			
°	iensis Cry1Ab protein and Vip3Aa20 protein and th	U	· · · · ·			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	•	Status	Note
885.2300	Murray, J. (2007). Validation of the analytical method for qualitative detection of Vip3Aa20 protein in maize seed. SSB-016-07		Syngenta Seeds	, Inc.	OWN	Volume 7 of MIR162 submission dated May 17, 2007
885.2300	Brady, J. (2007). Independent laboratory validation: Syngenta Biotechnology, Inc. SOP 2.91.1, "Extraction and qualitative detection of Vip3Aa20 protein from MIR162 maize seed. 1-2007		Syngenta Seeds	, Inc.	OWN	Volume 8 of MIR162 submission dated May 17, 2007
885.3050	Draper, C. (2007). MIRVIP3A-0106 single dose oral toxicity study in mice. AM7543-REG		Syngenta Seeds	s, Inc	OWN	Volume 9 of MIR162 submission dated May 17, 2007
885. Group C	Stacy, C. (2007). <i>In vitro</i> digestibility of Vip3Aa20 under simulated mammalian gastric conditions. SSB-038-06		Syngenta Seed:	s, Inc	OWN	Volume 10 of MIR162 submission dated May 17, 2007
885. Group C	Stacy, C. (2007). <i>In vitro</i> digestibility of Vip3Aa20 (MIR162VIP3A-0106) under simulated mammalian intestinal conditions. SSB-002-07		Syngenta Seeds	, Inc.	OWN	Volume 11 of MIR162 submission dated May 17, 2007
885. Group	Stacy, C. (2007). Effect of temperature on the stability of Vip3Aa20 protein. SSB-039-06		Syngenta Seeds	, Inc.	OWN	Volume 12 of MIR162 submission dated May 17, 2007
Signature	h Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

,	DA	TA MATRIX				
Date: May 17, 2007 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709					No. / File Symbol:	Page 10 of 23
					IR162 Corn	
, , , , , , , , , , , , , , , , , , , ,	ensis Cry1Ab protein and Vip3Aa20 protein and th	Č ,		oduction in	corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885.4050	Brake, J. (2007). Evaluation of event MIR162 transgenic maize in broiler chickens. Report No. SSB-507-07		Syngenta Seeds	, Inc.	OWN	Volume 13 of MIR162 submission dated May 17, 2007
885.4340	Stacey, D. and R. Blake (2007). Vip3Aa20: A laboratory study to determine effects of Vip3Aa20 protein on the rove beetle <i>Aleochara bilineata</i> (Coleoptera: Staphylinidae). Report No. T002155-06-REG		Syngenta Seeds	s, Inc	OWN	Volume 14 of MIR162 submission dated May 17, 2007
885.4380	Jeker, L. (2006). Vip3Aa20: A honeybee brood study to evaluate the effects on brood development of the honeybee, <i>Apis mellifera</i> L. (Hymenoptera: Apidae). T002494-06		Syngenta Seeds	s, Inc	OWN	Volume 15 of MIR162 submission dated May 17, 2007
885. Group D	Raybould, A. (2007). The environmental fate of Vip3Aa20 in MIR162 maize: Expected environmental concentrations, margins of exposure in non-target organism hazard studies and endangered species assessment. Report No. SSB-523-07		Syngenta Seed:	5, Inc	OWN	Volume 16 of MIR162 submission dated May 17, 2007
2	Huber et al. (2007). Insecticidal efficacy field evaluations with MIR162 maize in 2005 and 2006. SSB-522-07		Syngenta Seeds	, Inc.	OWN	Volume 17 of MIR162 submission dated May 17, 2007
Signature	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

€EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg. No. / File Symbol: 67979-		Page 11 of 23
	Crops - NAFTA, P.O. Box 12257, Research Trian	U			IIR162 Corn	
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for the						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
	White et al. (2007). Corn earworm tolerance of a MIR162 maize hybrid: 2006 field trial results. SSB-502-07		Syngenta Seeds	, Inc.	OWN	Volume 18 of MIR162 submission date May 17, 2007
	White et al. (2007). Fall armyworm tolerance of a MIR162 maize hybrid: 2006 field efficacy trial results. SSB-503-07		Syngenta Seeds	, Inc.	OWN	Volume 19 of MIR162 submission dated May 17, 2007
	Ward, D. and D. Vlachos (2007). Public interest assessment supporting registration of MIR162, Bt11xMIR162 and Bt11xMIR162xMIR604 maize. Report No. SSB-518-07		Syngenta Seeds	, Inc.	OWN	Volume 20 of MIR162 submission dated May 17, 2007
	Huber, S. (2007). Literature references supporting the application for registration of MIR162 corn – 1 of 3. MIR162-EPA-12-VOL20		Syngenta Seed:	s, Inc	PL	Volume 21 of MIR162 submission dated May 17, 2007
	Huber, S. (2007). Literature references supporting the application for registration of MIR162 corn – 2 of 3. MIR162-EPA-12-VOL21		Syngenta Seed:	s, Inc	PL	Volume 22 of MIR162 submission dated May 17, 2007
	Huber, S. (2007). Literature references supporting the application for registration of MIR162 corn – 3 of 3. MIR162-EPA-12-VOL22		Syngenta Seed:	s, Inc	PL	Volume 23 of MIR162 submission dated May 17, 2007
Signature	Durch		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

♦EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 12 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn MRID Number Guideline Reference Number Guideline Study Name Submitter Status Note **Data Supporting Marker Protein – PMI** 885..3050 Kuhn, J. O. (1999). Phosphomannose isomerase (sample Submitted PMI-0198): Acute oral toxicity in mice. 4708-98 459344-07 Syngenta Seeds, Inc. OWN May 1, 2003 Privalle, L. (1999). In vitro digestibility of PMI protein 885.3050 under simulated mammalian gastric and intestinal Submitted conditions. NSB-002-99 459344-08 Syngenta Seeds, Inc. OWN May 1, 2003 885.2400 Hill, K. (2003). Effects of temperature on the stability of Submitted phosphomannose isomerase. SSB-013-03 459344-09 Syngenta Seeds, Inc. OWN May 1, 2003 Harper, B. (2006). Phosphomannose isomerase: 885 3050 Assessment of amino acid sequence homology with Submission dated known toxins. SSB-114-06 468648-10 Syngenta Seeds, Inc. OWN June 7, 2006 Signature Name and Title Date aih Dunder Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Form Approved OMB No. 2070-0060

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX								
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 13 of 23		
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Triar	ngle Park, NC 2770	9	Product: I	Bt11 x MIR162 Corn			
Ingredient Bacillus thurin	giensis Cry1Ab protein and Vip3Aa20 protein and	d the genetic materi	ial necessary for their	production i	in corn			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note		
885. 3400	Hart, H. (2005). Phosphomannose isomerase: Assessment of amino acid sequence homology with known allergens. SSB-140-05	468648-11	Syngenta Seeds,	, Inc.	OWN	Submission dated June 7, 2006		
885.1100 885.1300 885.1400 885.2100 885.2200	Stacy, C. and G. Graser (2006). Characterization of phosphomannose isomerase (PMI) produced in MIR162 maize and comparison to PMI as contained in test substance PMI-0198. SSB-037-06		Syngenta Seeds,	, Inc.	OWN	Volume 3 of MIR162 submission dated May 17, 2007		
Data Supporting the Cry1Ab Plant-Incorporated Protectant in Bt11 Corn								
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	Williams, D. (1994) Product Characterization: <i>Bacillus thuringiensis</i> var. <i>kurstaki (Btk)</i> Protein in Corn: Lab Project No. NKJNV2	43130801	Northrup King	Co.	OWN	Submitted February 2, 1994		
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	Williams, D. (1994) Product Characterization: <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> (<i>Btk</i>) Protein in Corn: Supplemental Information: Lab Project No. NK5PDCH	43352602	Northrup King	Co.	OWN	Submitted September 26, 1994		
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	Williams, D. (1995) Product Characterization: <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> (<i>Btk</i>) Protein in Corn: Registration Application:	43754801	Northrup King		OWN	Submitted June 15, 1995		
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	Hanten, J. and R. Meeusen (1994) Determination of Levels of Plant Produced <i>Bacillus thuringiensis kurstaki</i> HD-1 Protein in Transgenic Maize	43397201	Northrup King	Co.	OWN	Submitted September 26, 1994		
Signature Trich	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs I	Mør	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg. N	lo./File Symbol: 67979-	Page 14 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	ngle Park, NC 2770)9	Product:	Bt11 x MIR162 Corn		
Ingredient Bacillus thur	ringiensis Cry1Ab protein and Vip3Aa20 protein a	and the genetic mat	terial necessary for the	ir productio	on in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
152-31, 152-34, 152-35 885.3100	Not applicable because Cry1Ab is a plant-incorporated active ingredient present at low levels and there is little opportunity for dermal or ocular contact.	N/A				
151-23, 151-25, 151-26, 153-4 885.1400, 885-1500, 885.2200, 885.2400, 885.2500	Privalle, L. Quantification of Cry1Ab Protein in Maize (Corn) Tissues and Whole Plants Derived from Transformation Event Bt11	45879803	Syngenta Seeds, Inc. – I NAFTA	Field Crops -	OWN	Submitted March 14, 2003
152-33, 885.3200	Not applicable because Cry1Ab is not a living organism.	N/A				
152-26, 152-37, 152-38 885.3400	There is no clear published evidence that has demonstrated clinical allergic reactions to <i>Bt</i> crystal proteins.	N/A				
152-32 885.3150	Not applicable because Cry1Ab is a plant-incorporated active ingredient present at low levels and there is little opportunity for human inhalation exposure. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	N/A				
152-39, 885.3500	Not applicable because Cry1Ab is not a living organism.	N/A				
154-17 885.4100	A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	N/A				
154-18 885.4150	Not applicable because there is no evidence to indicate that wild mammals would be any more sensitive to Cry1Ab than laboratory animals. Mammals do not possess Cry protein receptors. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	N/A				
Signature Earth	Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

₿EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX								
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 15 of 23		
Applicant's/Registrant's Name &		-1- D- 1- NG 2770	0		0411 MID 160 Com			
	Crops - NAFTA, P.O. Box 12257, Research Trian	U			St11 x MIR162 Corn			
	giensis CryIAb protein and Vip3Aa20 protein and					Nete		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note		
154-2 885.4300	Cry1Ab is an insect protein toxin and Cry proteins have never been shown to cause toxicity in aquatic and terrestrial plants. The risk of outcrossing to weedy wild relatives is virtually nonexistent.	N/A						
885.2200	Lee et al. (1995). Assessment of the equivalence of the <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> HD-1 protein produced in <i>Escherichia coli</i> and European corn borer resistant corn. MSL-13879	435332-04	Monsanto Com	pany	РАҮ	Submitted January 31, 1994		
151-26						Submission dated		
885.2200	Toxicity and Tolerance Considerations, Btk HD-1 Protein	43352603	Northrup King	Co.	OWN	August 25, 1994		
151-26 885.2200	Toxicity, Btk Protein and PAT in Corn	43754802	Northrup King	Co.	OWN	Submitted August 25, 1994		
885.3050	Naylor, M. (1992). Acute oral toxicity study of Btk HD-1 tryptic core protein in albino mice. ML-92-029. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434680-01	Monsanto Com	pany	РАҮ	Submitted November 2, 1994		
885. Group C	Ream, J. (1994). Assessment of the <i>in vitro</i> digestive fate of <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> HD-1 protein. 93-01-39-04	434392-01	Monsanto Com	pany	РАУ	Submitted November 2, 1994		
Signature Erich	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

€PA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX									
Date: May 17, 2007			EPA	A Reg. No	o./File Symbol: 67979)_ Page 16 of 23			
Applicant's/Registrant's Na	ame & Address:								
Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709					8t11 x MIR162 Corr	1			
Ingredient Bacillus thur	ringiensis Cry1Ab protein and Vip3Aa20 protein	and the genetic mat	erial necessary for their pr	roduction	n in corn				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note			
	Zawodny, J. (2003) Cry1Ab Protein as Expressed in								
151-26	Transgenic Maize Event Bt11: Assessment of Amino	45050001	Syngenta Seeds, Inc. – Field C	Crops -	own i	Submitted			
885.2200	Acid Homology with Known Toxins.	45879801	NAFTA		OWN	March 17, 2003			
151-26 885.2200	Zawodny, J. (2003) Cry1Ab Protein as Expressed in Transgenic Maize Event Bt11: Assessment of Amino Acid Homology with Known Allergens. Syngenta report no. SSB-006-03	45879802	Syngenta Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted March 17, 2003			
N/A Signature	Vlachos, D. (1994) Assessment and Summary of Characterization, Residue and Safety Data for Phosphinothricin Acetyltransferase (PAT), the Marker Protein in Bt Maize (Corn) Event 176	43323602	Ciba Seeds/Ciba-Geigy Co Name and Title Erik M. Dunder,	orp.	OWN Date May 17, 2007	Submitted July 29, 1994			
6			Regulatory Affairs Mgr.		-				

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

₿EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX									
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 6797	9- Page 17 of 23			
Applicant's/Registrant's N	Applicant's/Registrant's Name & Address:								
Syngenta Seeds, Inc Field	Crops - NAFTA, P.O. Box 12257, Research Trian	gle Park, NC 2770	9	Product: I	Bt11 x MIR162 Corr	n			
Ingredient Bacillus thurin	giensis Cry1Ab protein and Vip3Aa20 protein and	the genetic materi	ial necessary for their	production i	in corn				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note			
151-26 885.2200	Meeusen, R. (1994) Toxicity/Allergenicity Considerations – Phosphinothricin Acetyl Transferase	43352604	Northrup King	Co.	OWN	Submitted September 26, 1994			
870.1100	Kuhn, J. O. (1995) Phosphinothricin Acetyltransferase (Sample PAT-0195): Final Report; Acute Oral Toxicity Study in Mice. A pathogenicity determination is not applicable since PAT is not a living organism.	43642701	Ciba Seeds/Ciba-Gei	gy Corp.	OWN	Submitted May 10, 1995			
152-30 885.3050	Privalle, L. (1994) <i>In vitro</i> Digestibility and Inactivation of the <i>bar</i> Marker Gene Product Phosphinothricin Acetyltransferase (PAT) Under Simulated Mammalian Gastric Conditions	43323607	Ciba Seeds/Ciba-Gei	gy Corp.	OWN	Submitted July 29, 1994			
N/A	Wehrman, A., A.Van Vliet, C. Opsomer, J. Botterman, and A. Shulz (1996). The similarities of <i>bar</i> and <i>pat</i> gene products make them equally applicable for plant engineers. <i>Nature Biotechnology</i> 14, 1274-1278.	N/A	(published stud	ly)	PR	Study shows substantial equivalence of PAT protein from <i>bar</i> and <i>pat</i> genes.			
Signature Each	Dunker		Name and Title Erik M. Dunder, Regulatory Affairs N	Лgr.	Date May 17, 2007				

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

0==0						MB No. 2070-0060
₽PA	UNITED STATES E	-		ON AGE	NCY	
		401 M Stre	•			
		Nashington,				
response for reregistration and other aspect of this collection o	btice: The public reporting burden for this collection of inf special review activities, including time for reading the in f information, including suggestions for reducing the burden, DC 20460. Do not send the form to this address.	structions and compl	eting the necessary form	s. Send com	ments regarding the burd	en estimate or any
		TA MATRIX				
D . M 17 2007						Page 18 of 23
Date: May 17, 2007 Applicant's/Registrant's Name 8	& Address			EPA Reg. N	Io./File Symbol: 67979-	Fage 16 01 25
	l Crops - NAFTA, P.O. Box 12257, Research Trian	gle Park, NC 2770)9	Product:	Bt11 x MIR162 Corn	
Ingredient Bacillus thuringier	asis Cry1Ab protein and Vip3Aa20 protein and the genetic mate	erial necessary for their	production in corn			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
885. Group D	Palmer, S. and J. Beavers (1995). CryIA(b) insecticidal protein: An acute toxicity study with the earthworm in an artificial soil substrate. WL-95-281. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	438879-02	Monsanto Company		РАҮ	Submitted January 11, 1996
885.4340	Effect of the <i>Bacillus thuringiensis</i> insecticidal proteins CryIA(b), CryIA(c), CryIIA and CryIIIA on <i>Folsomia</i> <i>candida</i> and <i>Xenylla grisea</i> (Insecta: Collembola). A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	43941601	Monsanto Company		РАҮ	Submitted January 11, 1996
885.4340	Sims, S.R. and J.W. Martin (1997) Effect of the <i>Bacillus thuringiensis</i> insecticidal proteins CryIA(b), CryIA(c), CryIIA, and CryIIIA on <i>Folsomia candida</i> and <i>Xenylla grisea</i> (Insecta: Collembola). <i>Pedobiologia</i> 41:412-416. A pathogenicity determination is not applicable since CryIAb is not a living organism.	43941601	(published study)		PR	Published study or Collembola.
000.1010	ci y mo io not u nving organism.		(puonsited stu	*57		conciniona.
885.4340	Chronic Exposure of <i>Folsomia candida</i> to Corn Tissue Expressing CryIA(b) Protein. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	44271501	Monsanto Com	bany	РАҮ	Submitted January 11, 1996
Signature Earth	Duxkr		Name and Title Erik M. Dunder, Regulatory Affairs M	Agr.	Date May 17, 2007	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

					Form Approved O	MB No. 2070-0060			
∛ EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.								
		Nashington,	D.C. 20460						
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection of inf special review activities, including time for reading the in f information, including suggestions for reducing the burden, DC 20460. Do not send the form to this address.	structions and compl	eting the necessary form	is. Send com	ments regarding the burd	en estimate or any			
	DA								
Date: May 17, 2007				EPA Reg. N	lo./File Symbol: 67979-	Page 19 of 23			
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Trian	gle Park, NC 2770)9	Product: I	Bt11 x MIR162 Corn				
Ingredient Bacillus thurin	igiensis Cry1Ab protein and Vip3Aa20 protein and	I the genetic mater	ial necessary for their	production	in corn				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note			
885.4340	Privalle, L. (2002) Impact of Vip3A and Cry1Ab Transgenic Maize (Corn) Leaf Tissue (Samples LLPACHA-0100, LLBt11-0100 and LLPACHABt11- 0100) on 28-Day Survival and Reproduction of Collembola (<i>Folsomia candida</i>). A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	45835810	Syngenta Seeds, Inc. – 1 NAFTA	Field Crops -	OWN	Submitted December 23, 2002			
885.4340	Hoxter, K. and S. Lynn (1992). Activated Btk HD-1 protein: A dietary toxicity study with ladybird beetles. WL-92-156. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434680-05	Monsanto Company		РАУ	Submitted November 2, 1994			
885.4380	Maggi, V. and S. Sims (1994). Evaluation of the dietary effects of purified B.t.k. endotoxin proteins on honeybee larvae. IRC-91-ANA-13. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434392-02	Monsanto Company		РАҮ	Submitted November 2, 1994			
885.4380	Maggi. V. and S. Sims (1994). Evaluation of the dietary effects of purified B.t.k. endotoxin proteins on honey bee adults. IRC-91-ANA-12. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434392-03	Monsanto Com	pany	РАУ	Submitted November 2, 1994			
Signature Zeich	Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs I	Mgr.	Date May 17, 2007				

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

₿EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX								
Date: May 17, 2007			EF	PA Reg. N	o./File Symbol: 67979-	Page 20 of 23		
Applicant's/Registrant's Name &	Applicant's/Registrant's Name & Address:							
Syngenta Seeds, Inc Field	Crops - NAFTA, P.O. Box 12257, Research Triar	gle Park, NC 2770	9 Pr	roduct: E	St11 x MIR162 Corn			
Ingredient Bacillus thurin	giensis Cry1Ab protein and Vip3Aa20 protein and	d the genetic mater	ial necessary for their pro	oduction i	n corn			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note		
885.4340	Halliday, W.R. (1994) Host Range Comparison of Native and Maize Expressed CryIA(b) Protein	43323611	Ciba Seeds/Ciba-Geigy	Corp.	OWN	Submitted July 29, 1994		
885.4340	Hoxter, K. and S. Lynn (1992). Activated Btk HD-1 protein: A dietary toxicity study with green lacewing larvae. WL-92-155. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434680-03	Monsanto Company	ý	РАҮ	Submitted November 2, 1994		
885.4340	Hoxter, K. and S. Lynn (1992). Activated Btk HD-1 protein: A dietary toxicity study with parasitic hymenoptera (<i>Brachymeria intermedia</i>). WL-92-157. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	434680-04	Monsanto Company		РАҮ	Submitted November 2, 1994		
885.4050	Campbell, S. and J. Beavers (1994). A dietary toxicity study with MON 80187 meal in northern bobwhite. WL- 94-150. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	435332-05	Monsanto Company	ý	РАҮ	Submitted January 31, 1995		
Signature Each	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs Mg	r.	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

€EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX								
Date: May 17, 2007				EPA Reg. N	Io./File Symbol: 67979-	Page 21 of 23		
Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIF					Bt11 x MIR162 Corn			
	s thuringiensis Cry1Ab protein and Vip3Aa20 protein a							
Guideline Reference						1		
Number	Guideline Study Name	MRID Number	Submitter	ŕ	Status	Note		
885-4240	Comparison of CryIA(b) Levels in Transgenic Bt11-Derived Maize (Corn) Pollen and Event 176-Derived Maize Pollen and Justification for Citation of <i>Daphnia magna</i> Toxicity Study of Event 176-Derived Pollen in Support of Bt11 <i>Daphnia magna</i> Data Requirement	44274201	Novartis Seeds.	Inc	OWN	Justifies use of Bt176 pollen study to fulfill Bt11 data requirement. Submitted 5/13/97		
885.4240	Collins, M. (1994). Bt maize pollen (PHO176-0194): acute toxicity to Daphnids (<i>Daphnia magna</i>) under static-renewal conditions. 94/3/5217. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	433236-10	Syngenta Seeds	,	OWN	Submitted July 29, 1994		
850.2100	Campbell, S. (1994) CryIA(b)-Enriched Maize Leaf Protein: An Acute Oral Toxicity Study with the Northern Bobwhite (<i>Colinus virginianus</i>). A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	43323609	Monsanto Com	ipany	РАҮ	Submitted January 31, 1995		
850.2100	Evaluation of European Corn borer resistant corn line MON 801 as a feed ingredient for catfish. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	43887901	Monsanto Company		РАҮ	Submitted January 31, 1995		
885.4200	Guyer, D. (2002) Evaluation of Transgenic Corn Event Bt11 in Broiler Chickens. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	45652101	Syngenta Seeds	s, Inc.	OWN	Submitted March 13, 2002		
154-23 885.4340	McKee, M., G. Head and D. Vlachos (2001) Potential Risk to Endangered Lepidoptera from YieldGard® Corn Pollen (Bt Corn Events MON810 and Bt11) with Emphasis on the Karner Blue Butterfly. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	45512201	Syngenta Seeds and Monsanto Com		OWN	Submitted October 9, 2001		
Signature Zuin	h Ounder		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. Washington, D.C. 20460								
response for reregistration a other aspect of this collection	Notice: The public reporting burden for this collection of inf and special review activities, including time for reading the in n of information, including suggestions for reducing the burd gton, DC 20460. Do not send the form to this address.	structions and compl	leting the necessary form	s. Send com	ments regarding the burd	en estimate or any		
		TA MATRIX						
Date: May 17, 2007				EPA Reg. N	eg. No./File Symbol: 67979- Page 22 of 2			
Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material new								
Ingredient Bacillus the Guideline Reference Number		MRID Number	Submitter		Status	Note		
N/A	Amended Revised Compendium of Published and Unpublished References Supporting the Response Document	45450102	Non-Target Organism Subcommittee of the Agricultural Biotechnology Stewardship Technical Committee		OWN	Data Call-In Response Submitted July 5, 2001		
N/A	Dively, G. <i>et al.</i> (2003) Effects on Monarch Butterfly Larvae after Continuous Exposure to Cry1Ab-Expressing Corn Pollen during Anthesis. A pathogenicity determination is not applicable since Cry1Ab is not a living organism.	46162001	Monsanto Company, Syngenta Seeds, IncField Crops – NAFTA, and Syngenta Seeds, Inc. – Vegetables – NAFTA		OWN	Submitted December 30, 2003		
N/A	ABSTC-Non-target Organism Subcommittee (2002) Field Surveys of Non-Target Invertebrate Populations in Bt Corn	45652001	Non-Target Organism Subcommittee of the Agricultural Biotechnology Stewardship Technical Committee		OWN	Submitted March 15, 2002		
N/A	ABSTC-Non-target Organism Subcommittee (2006) Field Surveys of Non-Target Invertebrate Populations in Bt Corn: Supplement to MRID No. 45652001	46784601	Non-Target Organism Subcommittee of the Agricultural Biotechnology Stewardship Technical Committee		OWN	Submitted March 15, 2006		
N/A	Williams, D. (1995) Environmental Fate: <i>Bacillus</i> <i>thuringiensis</i> var. <i>kurstaki</i> Protein in Corn. Lab Project NK5EF.	43696001	Northrup King		OWN	Submitted June 15, 1995		
N/A	Dubelman, S. (2003) Assessment of the Potential for Persistence and Accumulation of Cry1Ab Protein in Soil as a Result of Sustained Bt Corn Use	46022401	Syngenta Seeds, IncField Crops – NAFTA, Syngenta Seeds, Inc. – Vegetables–NAFTA & Monsanto Co.		OWN	Submitted June 23, 2003		
151-25	Analytical Method for the Detection of Cry1Ab Protein in Bt11 Corn Grain	45686701	Syngenta Seeds,	Inc.	OWN	Submitted June 4, 2002		
Signature Each Durcher			Name and Title Erik M. Dunder, Regulatory Affairs I	Agr.	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

₿EPA

Form Approved OMB No. 2070-0060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

Washington, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX								
Date: May 17, 2007				EPA Reg. No./File Symbol: 67979		Page 23 of 23		
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field)9	Product: E	8t11 x MIR162 Corn					
Ingredient Bacillus thurin	agiensis Cry1Ab protein and Vip3Aa20 protein and	the genetic mater	ial necessary for their	production i	n corn			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note		
N/A	Research Reports Regarding the Interactions between Corn Earworm (<i>Helicoverpa zea</i>) and Novartis Seeds' Insect Resistant Corn	44347401	Novartis Seeds, Inc.		OWN	Submitted July 31, 1997		
N/A	1997 Growing Season Report for Event 176-Derived and Bt11-Derived Corn	44475401	Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted January 30, 1998		
N/A	1998 Growing Season Report for Event 176-Derived, Bt11-Derived Field Corn and Bt11-Derived Sweet Corn	44743901	Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted January 25, 1999		
N/A	1999 Growing Season Report for Event 176-Derived, Bt11-Derived Field Corn and Bt11-Derived Sweet Corn	45056801	Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted February 3, 2000		
N/A	2000 Growing Season Report for Event 176-Derived, Bt11-Derived Field Corn and Bt11-Derived Sweet Corn	45438101	Syngenta Seeds, Inc.		OWN	Submitted January 30, 2001		
N/A	2001 Growing Season Report for Event 176-Derived, Bt11-Derived Field Corn and Bt11-Derived Sweet Corn		Syngenta Seeds, Inc.		OWN	Submitted January 2002		
N/A	2002 Growing Season Report for Bt11-Derived Field Corn	45849601	Syngenta Seeds, Inc.		OWN	Submitted January 30, 2003		
N/A	2003 Growing Season Report for Bt11-Derived Field Corn	46184001	Syngenta Seeds, Inc.		OWN	Submitted January 30, 2004		
N/A	2004 Growing Season Report for Bt11-Derived Field Corn		Syngenta Seeds,	Inc.	OWN	Submitted January 2005		
N/A	2005 Growing Season Report for Bt11-Derived Field Corn	46746601	Syngenta Seeds,	Inc.	OWN	Submitted January 31, 2006		
Signature Earth Durcher			Name and Title Erik M. Dunder, Regulatory Affairs M	Mgr	Date May 17, 2007			

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Control of the border of
401 M Street, S.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information, is estimated to average 0.25 hours per response for registration activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address: DATA MATRIX Date: May 17, 2007 EPA Reg. No./File Symbol: 67979- Page 1 of 23 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn
Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address. Date: May 17, 2007 EPA Reg. No./File Symbol: 67979- Page 1 of 23 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Volume 1 of this
response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address. Date: May 17, 2007 EPA Reg. No./File Symbol: 67979- Page 1 of 23 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Volume 1 of this
other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX Date: May 17, 2007 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Syngenta Seeds, Inc Field Crops - Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc Field Crops - Volume 1 of this
401 M Street, S.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX Date: May 17, 2007 EPA Reg. No./File Symbol: 67979- Page 1 of 23 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops -
DATA MATRIX Date: May 17, 2007 EPA Reg. No./File Symbol: 67979- Page 1 of 23 Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc Field Crops - Volume 1 of this
Applicant's/Registrant's Name & Address: Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Applicant's/Registrant's Name & Address: Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Product: Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Image: Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Volumes Specifically Supporting the Combined Plant-Incorporated Protectants in the New Product, Bt11 x MIR162 Corn Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
Syngenta Seeds, Inc. – Field Crops - Volume 1 of this
NAFTA OWN submission
Syngenta Seeds. Inc. –Field Crops - Volume 2 of this
NAFTA OWN submission
Syngenta Seeds. Inc. OWN Syngenta Seeds. Inc.
Syngenta Seeds, Inc. OWN submission
Syngenta Seeds, Inc. – Field Crops - Volume 4 of this
NAFTA OWN submission
Syngenta Seeds, Inc. – Field Crops - Volume 5 of this
NAFTA OWN submission
Syngenta Seeds, Inc. – Field Crops - Volume 6 of this NAFTA OWN submission
Signature Erik M. Dunder, May 17, 2007
Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060								
SEPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY								
401 M Street, S.W.								
Washington, D.C. 20460								
Paperwork Reduction Act No	tice: The public reporting burden for this collection of in	formation is estimate	d to average 0.25 hours	per response	for registration activities	and 0.25 hours per		
other aspect of this collection of	special review activities, including time for reading the in f information, including suggestions for reducing the burg	den to: Director, OPPI	E Information Manageme	nt Division (2	137), U.S. Environmental	Protection Agency,		
	n, DC 20460. Do not send the form to this address.		-	•				
	DA	ATA MATRIX						
Date: May 17, 2007				FPA Reg N	lo./File Symbol: 67979-	Page 2 of 23		
Applicant's/Registrant's Name & Address:								
Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709				Product: Bt11 x MIR162 Corn				
	ensis Cry1Ab protein and Vip3Aa20 protein and t	Ŭ	necessary for their pro-	oduction in o	corn Status	i		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Submitter		Note		
			Syngenta Seeds, Inc. –	Field Crops -		Volume 7 of this		
			NAFTA		OWN	submission		
			Syngenta Seeds, Inc. – Field Crops - NAFTA		OWN	Volume 8 of this submission		
			Syngenta Seeds, Inc. – Field Crops - NAFTA Syngenta Seeds, Inc. – Field Crops -			Volume 9 of this		
					OWN	submission		
						Volume 10 of this		
			NAFTA		OWN	submission		
			Syngenta Seeds, Inc. – Field Crops - NAFTA					
					OWN	Volume 11 of this submission		
					OWN	500111351011		
						Submitted		
			Syngenta Seeds, Inc. – Field Crops - NAFTA		OWN	December 14, 2006		
			INAFIA		Own	2000		
						Submitted		
			Syngenta Seeds, Inc. –	Field Crops -	OWN	December 14,		
			NAFTA Name and Title		OWN Date	2006		
Signature Junh	Durch		Erik M. Dunder,		May 17, 2007			
6- 6- 60			Regulatory Affairs	Mgr.				

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

♦EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 3 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number **Guideline Study Name** MRID Number Submitter Status Note Data Supporting MIR162 & Vip3Aa20 Submission dated September 24, 2002 Syngenta Seeds, Inc OWN Submission dated September 24, Syngenta Seeds. Inc OWN 2002 Submission dated Syngenta Seeds, Inc OWN October 29, 2002 Submission dated Syngenta Seeds, Inc OWN October 29, 2002 Submission dated December 23, Syngenta Seeds, Inc OWN 2002 Name and Title Signature Date Eich Durcher Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Form Approved OMB No. 2070-0060

♣EPA	PA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460				
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection special review activities, including time for reading f information, including suggestions for reducing the <i>N</i> ., Washington, DC 20460. Do not send the form the	the instructions and comple burden to: Director, OPPE	eting the necessary forms. Send	comments regarding the b	urden estimate or any
		DATA MATRIX			
Date: May 17, 2007			EPA Re 6797	eg. No. / File Symbol:	Page 4 of 23
Applicant's/Registrant's Name 8	Address: Crops - NAFTA, P.O. Box 12257, Research	Triangle Park, NC 2770	Product		1 490 4 01 23
Ingredient Bacillus thuringie	ensis Cry1Ab protein and Vip3Aa20 protein a	and the genetic material	necessary for their production	in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Syngenta Seeds, Inc	OWN	Submission dated December 23, 2002
			Syngenta Seeds, Inc	OWN	Submission dated June 7, 2006
			Syngenta Seeds, Inc	OWN	Submission dated June 7, 2006
			Syngenta Seeds, Inc	OWN	Submission dated June 7, 2006
			Syngenta Seeds, Inc	OWN	Submission dated June 7, 2006
			Syngenta Seeds, Inc	OWN	Submission dated June 7, 2006
Signature	Durker		Name and Title Erik M. Dunder, Regulatory Affairs Mgr.	Date May 17, 2007	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 5 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number MRID Number Guideline Study Name Submitter Status Note Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds. Inc OWN June 7, 2006 Submission dated OWN Syngenta Seeds, Inc June 7, 2006 Name and Title Signature Date Eich Durcher Erik M. Dunder. May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 6 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number MRID Number Guideline Study Name Submitter Status Note Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds. Inc PL June 7, 2006 Submission dated OWN Syngenta Seeds, Inc June 7, 2006 Name and Title Signature Date anh Dunder Erik M. Dunder. May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 7 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number MRID Number Guideline Study Name Submitter Status Note Submission dated Syngenta Seeds, Inc OWN June 7, 2006 Submission dated Syngenta Seeds, Inc PL June 7, 2006 Submission dated December 14, Syngenta Seeds, Inc. OWN 2006 Submission dated December 14, Syngenta Seeds, Inc. OWN 2006 Submission dated December 14, Syngenta Seeds, Inc. OWN 2006 Name and Title Signature Date inh Dunder Erik M. Dunder. May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

€EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 8 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number MRID Number Guideline Study Name Submitter Status Note Volume 1 of MIR162 submission dated Syngenta Seeds, Inc OWN May 17, 2007 Volume 2 of MIR162 submission dated Syngenta Seeds, Inc OWN May 17, 2007 Volume 4 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Volume 5 of MIR162 submission dated Syngenta Seeds. Inc. OWN May 17, 2007 Volume 6 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Signature Name and Title Date Tinh Dunker Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 9 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn MRID Number Guideline Reference Number Guideline Study Name Submitter Status Note Volume 7 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Volume 8 of MIR162 submission dated OWN May 17, 2007 Syngenta Seeds, Inc. Volume 9 of MIR162 submission dated Syngenta Seeds, Inc OWN May 17, 2007 Volume 10 of MIR162 submission dated Syngenta Seeds, Inc OWN May 17, 2007 Volume 11 of MIR162 submission dated OWN May 17, 2007 Syngenta Seeds, Inc. Volume 12 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Signature Name and Title Date Tinh Dunder Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

₩EPA	Form Approved OMB No. 2070-0060 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460					
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection of ir special review activities, including time for reading the i information, including suggestions for reducing the burd <i>V</i> ., Washington, DC 20460. Do not send the form to this	nstructions and compl den to: Director, OPPE	leting the necessary form	s. Send com	ments regarding the b	urden estimate or any
	D/	ATA MATRIX				
Date: May 17, 2007				67979-	o. / File Symbol:	Page 10 of 23
	<u>Crops - NAFTA, P.O. Box 12257, Research Tria</u> ensis Cry1Ab protein and Vip3Aa20 protein and t			Product: Bt11 x MI		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
						Volume 13 of MIR162 submission dated
			Syngenta Seeds,	Inc.	OWN	May 17, 2007
			Syngenta Seeds	, Inc	OWN	Volume 14 of MIR162 submission dated May 17, 2007
			Syngenta Seeds	, Inc	OWN	Volume 15 of MIR162 submission dated May 17, 2007
			Syngenta Seeds	, Inc	OWN	Volume 16 of MIR162 submission dated May 17, 2007
			Syngenta Seeds,	Inc.	OWN	Volume 17 of MIR162 submission dated May 17, 2007
Signature	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs N	Agr.	Date May 17, 2007	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 11 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn MRID Number Guideline Reference Number Guideline Study Name Submitter Status Note Volume 18 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Volume 19 of MIR162 submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Volume 20 of **MIR162** submission dated Syngenta Seeds, Inc. OWN May 17, 2007 Volume 21 of MIR162 submission dated Syngenta Seeds, Inc PL May 17, 2007 Volume 22 of **MIR162** submission dated Syngenta Seeds, Inc PL May 17, 2007 Volume 23 of **MIR162** submission dated Syngenta Seeds, Inc PL. May 17, 2007 Name and Title Signature Date Eich Ducker Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Form Approved OMB No. 2070-0060 **€**EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460 Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address. DATA MATRIX EPA Reg. No. / File Symbol: Date: May 17, 2007 67979-Page 12 of 23 Applicant's/Registrant's Name & Address: Product: Syngenta Seeds, Inc. - Field Crops - NAFTA, P.O. Box 12257, Research Triangle Park, NC 27709 Bt11 x MIR162 Corn Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn Guideline Reference Number MRID Number Guideline Study Name Submitter Status Note **Data Supporting Marker Protein – PMI** Submitted Syngenta Seeds, Inc. OWN May 1, 2003 Submitted Syngenta Seeds, Inc. OWN May 1, 2003 Submitted Syngenta Seeds, Inc. OWN May 1, 2003 Submission dated Syngenta Seeds, Inc. OWN June 7, 2006 Signature Name and Title Date Tich Durcher Erik M. Dunder, May 17, 2007 Regulatory Affairs Mgr.

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

♣EPA	Form Approved OMB No. 2070-0060					
		401 M Stre				
		Washington,				
response for reregistration and s other aspect of this collection of	ice: The public reporting burden for this collection of inf special review activities, including time for reading the in information, including suggestions for reducing the burd , DC 20460. Do not send the form to this address.	structions and compl	eting the necessary form	is. Send com	ments regarding the burde	en estimate or any
	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg N	o./File Symbol: 67979-	Page 13 of 23
Applicant's/Registrant's Name &	Address:			-		
	Crops - NAFTA, P.O. Box 12257, Research Triar	•			Bt11 x MIR162 Corn	
Ingredient Bacillus thuring Guideline Reference Number	giensis Cry1Ab protein and Vip3Aa20 protein and Guideline Study Name	MRID Number	Submitter	*	In corn Status	Note
Guideline Relefence Number			Submitter		Status	Note
						Submission dated
			Syngenta Seeds	, Inc.	OWN	June 7, 2006
			Syngenta Seeds	. Inc.	OWN	Volume 3 of MIR162 submission dated May 17, 2007
Data Supporting the C	ry1Ab Plant-Incorporated Protectant i	in Bt11 Corn	- · · ·			
II. S	J					
			Northrup King	Co.	OWN	Submitted February 2, 1994
						E i
			Northrup King	Co.	OWN	Submitted September 26, 1994
			Northrup King	Co.	OWN	Submitted June 15, 1995
						Submitted September 26,
			Northrup King Name and Title	Co.	OWN Date	1994
Signature Linh	Durker		Erik M. Dunder, Regulatory Affairs I	Mgr.	May 17, 2007	

Г

♣EPA	Form Approved OMB No. 2070-0060 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. Washington, D.C. 20460					
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection of in special review activities, including time for reading the ir f information, including suggestions for reducing the burd n, DC 20460. Do not send the form to this address.	structions and compl	leting the necessary form	is. Send com	ments regarding the burde	en estimate or any
	DA	TA MATRIX		1		-1
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 14 of 23
Applicant's/Registrant's Name & Syngenta Seeds, Inc Field	Address: Crops - NAFTA, P.O. Box 12257, Research Triar	ngle Park, NC 2770)9		Bt11 x MIR162 Corn	
Ingredient Bacillus thus	ringiensis Cry1Ab protein and Vip3Aa20 protein a	and the genetic mat	terial necessary for the	eir productio	n in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
			Syngenta Seeds, Inc. – NAFTA	Field Crops -	OWN	Submitted March 14, 2003
	Duxkr		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	
EPA Form 8570-35 (9-97) Electronic	c and Paper versions available. Submit only Paper version.				Agency Inter	nal Use Copy

€₽А	Form Approved OMB No. 2070-006 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY					MB No. 2070-0060
VEFA	UNITED STATES	401 M Stre				
		Washington,	,			
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection of in special review activities, including time for reading the ir information, including suggestions for reducing the burd, DC 20460. Do not send the form to this address.	formation is estimate	d to average 0.25 hours leting the necessary form	is. Send com	ments regarding the burd	en estimate or any
	•	TA MATRIX				
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 15 of 23
	Crops - NAFTA, P.O. Box 12257, Research Tria	0 /			Bt11 x MIR162 Corn	
· · · ·	<i>igiensis</i> CryIAb protein and Vip3Aa20 protein and		<u> </u>			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
			Monsanto Com	pany	РАҮ	Submitted January 31, 1994
			Northrup King	Co.	OWN	Submission dated August 25, 1994
			Northrup King	Co.	OWN	Submitted August 25, 1994
			Monsanto Com	pany	РАҮ	Submitted November 2, 1994
			Monsanto Com	pany	РАҮ	Submitted November 2, 1994
Signature Each	Durcher		Name and Title Erik M. Dunder, Regulatory Affairs	Mar	Date May 17, 2007	· · · · ·
L			Regulatory Artalls	wigi.		

0					Form Approved	OMB No. 2070-0060
₿EPA	UNITED STATES E	ENVIRONMEN	TAL PROTECT	ION AGE	NCY	
		401 M Stre	et, S.W.			
		Washington, I	D.C. 20460			
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection of inf special review activities, including time for reading the in f information, including suggestions for reducing the burd n, DC 20460. Do not send the form to this address.	structions and compl	eting the necessary form	s. Send com	ments regarding the b	urden estimate or any
		TA MATRIX				·
Date: May 17, 2007				EPA Reg. N	lo./File Symbol: 67979)_ Page 16 of 23
Applicant's/Registrant's N		1 5 1 10 4554				
	Crops - NAFTA, P.O. Box 12257, Research Triar	U			Bt11 x MIR162 Corr	1
	ringiensis Cry1Ab protein and Vip3Aa20 protein a					Nata
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
			Syngenta Seeds, Inc. – NAFTA	Field Crops -	OWN	Submitted March 17, 2003
			Syngenta Seeds, Inc. – NAFTA	Field Crops -	OWN	Submitted March 17, 2003
			Ciba Seeds/Ciba-Ge	igy Corp.	OWN	Submitted July 29, 1994
Signature Zaih	Dunkr		Name and Title Erik M. Dunder, Regulatory Affairs	Mgr.	Date May 17, 2007	

Agency Internal Use Copy

0		_			ed OMB No. 2070-0060
SEPA UNITED ST	ATES ENVIRONMEN		ON AGE	NCY	
	401 M Stree	et, S.W.			
	Washington, I	D.C. 20460			
Paperwork Reduction Act Notice: The public reporting burden for this colle response for reregistration and special review activities, including time for rea other aspect of this collection of information, including suggestions for reducir 401 M Street, S.W., Washington, DC 20460. Do not send the form to this add	ading the instructions and complending the burden to: Director, OPPE	eting the necessary form	s. Send com	ments regarding the b	ourden estimate or any
	DATA MATRIX				
Date: May 17, 2007			EPA Reg. N	o./File Symbol: 6797	79_ Page 17 of 23
Applicant's/Registrant's Name & Address:			0		
Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Rese	arch Triangle Park, NC 2770	19	Product: B	Bt11 x MIR162 Cor	'n
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 p	protein and the genetic materi	ial necessary for their	production i	n corn	
Guideline Reference Number Guideline Study Name	MRID Number	Submitter		Status	Note
					Submitted
		Northrup King	Co.	OWN	September 26, 1994
					· · ·
		Ciba Seeds/Ciba-Ge	igy Corp	OWN	Submitted May 10, 1995
		Cloa Secus/Cloa-Ge	igy corp.	OWIN	Widy 10, 1995
		Ciba Seeds/Ciba-Ge	igy Corp.	OWN	Submitted July 29, 1994
					Study shows substantial
					equivalence of PAT
			1 \	DD	protein from bar and
		(published stu Name and Title	ay)	PR Date	pat genes.
Signature Jaih Durcher		Erik M. Dunder,		May 17, 2007	
Can Vana		Regulatory Affairs I	Mgr.	111ay 17, 2007	

•				Form Approved O	MB No. 2070-0060		
SEPA UNITED STATES I	ENVIRONMEN	TAL PROTECT	ION AGE	NCY			
	401 M Street, S.W.						
	Washington,	D.C. 20460					
Paperwork Reduction Act Notice: The public reporting burden for this collection of in	formation is estimated	d to average 0.25 hours	per response	for registration activities a	nd 0.25 hours per		
response for reregistration and special review activities, including time for reading the in other aspect of this collection of information, including suggestions for reducing the burg							
401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.					recoden rigeney,		
DA	ATA MATRIX						
Date: May 17, 2007			EPA Reg. N	o./File Symbol: 67979-	Page 18 of 23		
Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Tria	ngle Park NC 2770)9	Product:	3t11 x MIR162 Corn			
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic mat	U /		i louuot. I				
Guideline Reference Number Guideline Study Name	MRID Number	Submitter		Status	Note		
				DAY	Submitted		
		Monsanto Com	pany	PAY	January 11, 1996		
					Submitted		
		Monsanto Com	pany	PAY	January 11, 1996		
					Submitted		
		Monsanto Com	pany	PAY	January 11, 1996		
5.18 B		Name and Title		Date			
Signature Earth Durcher		Erik M. Dunder,	Mar	May 17, 2007			
		Regulatory Affairs	wigr.				

€РА	Form Approved OMB No. 2070-0060 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.					
		Washington,	•			
response for reregistration and other aspect of this collection of	tice: The public reporting burden for this collection special review activities, including time for reading t f information, including suggestions for reducing the n, DC 20460. Do not send the form to this address.	of information is estimated he instructions and compl	d to average 0.25 hours eting the necessary form	is. Send com	ments regarding the burg	len estimate or any
		DATA MATRIX		1		
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 19 of 23
	Crops - NAFTA, P.O. Box 12257, Research				Bt11 x MIR162 Corn	
Ingredient Bacillus thurin Guideline Reference Number	ngiensis Cry1Ab protein and Vip3Aa20 protein Guideline Study Name	MRID Number	Submitter		n corn Status	Note
			Syngenta Seeds, Inc. – NAFTA	Field Crops -	OWN	Submitted December 23, 2002
			Monsanto Com		РАҮ	Submitted November 2, 1994 Submitted November 2, 1994
Signature 5	Durch		Monsanto Com Name and Title Erik M. Dunder,	pany	PAY Date May 17, 2007	Submitted November 2, 1994
Crim	vann		Regulatory Affairs	Mgr.	1111 17, 2007	

SEPA UNITED STATES	Form Approved OMB No. 2070-0060				
VLIA	401 M Stree				
	Washington, I	D.C. 20460			
Paperwork Reduction Act Notice: The public reporting burden for this collection of response for reregistration and special review activities, including time for reading the other aspect of this collection of information, including suggestions for reducing the bu 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.	instructions and comple	eting the necessary form	is. Send com	ments regarding the burd	en estimate or any
D	ATA MATRIX				
Date: May 17, 2007			EPA Reg. N	o./File Symbol: 67979-	Page 20 of 23
Applicant's/Registrant's Name & Address: Syngenta Seeds, Inc Field Crops - NAFTA, P.O. Box 12257, Research Tri	angle Park, NC 2770	9	Product: I	St11 x MIR162 Corn	
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein a	nd the genetic mater	ial necessary for their	production	in corn	
Guideline Reference Number Guideline Study Name	MRID Number	Submitter		Status	Note
		Ciba Seeds/Ciba-Ge	igy Corp.	OWN	Submitted July 29, 1994
					r
					l
		Monsanto Com	pany	РАҮ	Submitted November 2, 1994
					l
					Submitted
		Monsanto Com	pany	PAY	November 2, 1994
					l
					l
					Published study on
		(published stu	dy)	PR	Collembola.
					1
					Submitted
		Monsanto Com	pany	PAY	January 31, 1995
Signature Trich Durcher		Name and Title Erik M. Dunder,		Date May 17, 2007	
ingitude Com Vana		Regulatory Affairs	Mgr.	wiay 17, 2007	
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.			~	Agency Inte	rnal Use Copy

Г

€PA	Form Approved OMB No. 2070-0060 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY					
		401 M Stre Washington, I	•			
response for reregistration a other aspect of this collectio	Notice: The public reporting burden for this collection of inf and special review activities, including time for reading the in n of information, including suggestions for reducing the burd- gton, DC 20460. Do not send the form to this address.	formation is estimated	d to average 0.25 hours leting the necessary form	s. Send com	ments regarding the burd	en estimate or any
	DA	TA MATRIX				
Date: May 17, 2007				EPA Reg. N	o./File Symbol: 67979-	Page 21 of 23
Applicant's/Registrant's Nam	ne & Address: eld Crops - NAFTA, P.O. Box 12257, Research Trian	ngle Park, NC 2770)9		Bt11 x MIR162 Corn	
	thuringiensis Cry1Ab protein and Vip3Aa20 protein a	and the genetic mat	terial necessary for the	eir productio	n in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
			Novartis Seeds.	Inc.	OWN	Justifies use of Bt176 pollen study to fulfill Bt11 data requirement. Submitted 5/13/97
			Syngenta Seeds	, Inc.	OWN	Submitted July 29, 1994
			Monsanto Com	pany	РАҮ	Submitted January 31, 1995
			Monsanto Com	pany	РАҮ	Submitted January 31, 1995
			Syngenta Seeds	, Inc.	OWN	Submitted March 13, 2002
			Syngenta Seeds and Monsanto Com		OWN	Submitted October 9, 2001
Signature East	h Ounder		Name and Title Erik M. Dunder, Regulatory Affairs		Date May 17, 2007	5000017,2001

Agency Internal Use Copy

Form Approved OMB No. 2070-006 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. Washington, D.C. 20460					
response for reregistration and sother aspect of this collection of	tice: The public reporting burden for this special review activities, including time for information, including suggestions for rec., DC 20460. Do not send the form to this	collection of information is estimated r reading the instructions and compl ducing the burden to: Director, OPPE	d to average 0.25 hours per re eting the necessary forms. S	end comments regarding the	burden estimate or an
		DATA MATRIX			
Date: May 17, 2007			FP	A Reg. No./File Symbol: 679	79_ Page 22 of 23
Applicant's/Registrant's N	ame & Address:			a reg. no.// lie Cymbol. 0/9	
	Crops - NAFTA, P.O. Box 12257, R	esearch Triangle Park, NC 2770	9 Pro	duct: Bt11 x MIR162 Co	orn
Ingredient Bacillus thuring	giensis Cry1Ab protein and Vip3Aa2	20 protein and the genetic materi	al necessary for their prod	uction in corn	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Non-Target Organism Subcor of the Agricultural Biotechn Stewardship Technical Com Monsanto Company, Syngenta Seeds, IncField C NAFTA, and	ology mittee OWN	Data Call-In Response Submitted July 5, 2001 Submitted
			Syngenta Seeds, Inc. – Veget NAFTA	ables – OWN	December 30 2003
			Non-Target Organism Subcor of the Agricultural Biotechn Stewardship Technical Com	ology	Submitted March 15, 200
			Non-Target Organism Subcor of the Agricultural Biotechn Stewardship Technical Com	ology	Submitted March 15, 200
			Northrup King Co.	OWN	Submitted June 15, 1995
			Syngenta Seeds, IncField C NAFTA, Syngenta Seeds, I Vegetables–NAFTA & Monsa	nc. –	Submitted June 23, 2003
			Syngenta Seeds, Inc.	OWN	Submitted June 4, 2002
Signature Each	Durch		Name and Title Erik M. Dunder, Regulatory Affairs Mgr.	Date May 17, 2007	
EPA Form 8570-35 (9-97) Electronic	and Paper versions available. Submit only Paper	per version.	regulatory reliants Wigt.	Agency	/ Internal Use Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. Washington, D.C. 20460						
response for reregistration and other aspect of this collection of	ptice: The public reporting burden for this collection of in special review activities, including time for reading the of information, including suggestions for reducing the bur n, DC 20460. Do not send the form to this address.	nformation is estimate instructions and compl	d to average 0.25 hours leting the necessary form	is. Send com	ments regarding the burd	en estimate or any
	D	ATA MATRIX		i		1
Date: May 17, 2007 Applicant's/Registrant's Name 8		EPA Reg. No./File Symbol: 67979-		Page 23 of 23		
Syngenta Seeds, Inc Field	09 Product: Bt11 x MIR162 Corn					
Ingredient Bacillus thuringiensis Cry1Ab protein and Vip3Aa20 protein and the genetic material necessary for their production in corn						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter		Status	Note
			Novartis Seeds, Inc.		OWN	Submitted July 31, 1997
			Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted January 30, 1998
			Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted January 25, 1999
			Novartis Seeds, Inc. – Field Crops - NAFTA		OWN	Submitted February 3, 2000
			Syngenta Seeds, Inc.		OWN	Submitted January 30, 2001
			Syngenta Seeds, Inc.		OWN	Submitted January 2002
			Syngenta Seeds, Inc.		OWN	Submitted January 30, 2003
			Syngenta Seeds, Inc.		OWN	Submitted January 30, 2004
					OWN	Submitted January 2005
			Syngenta Seeds	, Inc	OWN	Submitted January 31, 2006
Signature Earth Durcher					Date May 17, 2007	

Section II. Summary of the Application

Syngenta has developed the combined insecticidal trait product Bt11 x MIR162 maize (field corn) or "AgrisureTM2100" corn. This product was developed by combining the transgenic traits in Event Bt11 maize, which expresses a truncated *Bacillus thuringiensis (Bt)* Cry1Ab protein for control of certain lepidopteran pests and Event MIR162 maize, which expresses a *Bt* Vip3Aa20 protein for control of certain lepidopteran pests. The traits of these separate transgenic products were combined into the same maize variety through conventional breeding. Bringing these two insecticidal traits together in the same plant offers growers a convenient, reliable, and low-risk approach for limiting crop damage by a number of the major insect pests of maize.

This application for the FIFRA Section 3 registration of the active ingredients in "AgrisureTM2100" corn is accompanied by data volumes that describe the results of molecular characterization, transgenic protein level determination, product efficacy, environmental risk characterization and resistance management studies. These studies substantiate the equivalence of "AgrisureTM 2100" corn and corn derived from the component transformation events. This application further relies upon studies previously submitted to EPA for Vip3A and Cry1Ab, which are reference by MRID in the data matrix. The "AgrisureTM 2100" corn product will often be marketed as "Agrisure TM 2100GT" combined by conventional breeding with Event GA21 maize, which expresses a dmEPSPS protein conferring tolerance to glyphosate containing herbicides. This Bt11 x MIR162 x GA21 plant material was used in the majority of the studies submitted with this application.

[™] Agrisure is a trademark of a Syngenta Group company

Section III. Product Label

Five copies of the proposed label for Bt11 x MIR162 Corn are attached. Once registered, this product will be marketed under the alternate brand name of "AgrisureTM 2100" or "AgrisureTM 2100GT" corn. This label contains detailed grower instructions for deployment of an insect resistance management plan.

[™] Agrisure is a trademark of a Syngenta Group company

Bt11 x MIR162 Corn Seed

[Alternate brand name: AgrisureTM 2100]

Plant-incorporated protectant: Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:

Other Ingredients:

*Percent (wt/wt) of whole plant on a dry weight basis

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-EPA Establishment No. 66736-NC-01 Syngenta Seeds, Inc. - Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Rd. Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran insects:

European corn borer (Ostrinia nubilalis) Southwestern corn borer (Diatraea grandiosella) Southern cornstalk borer (Diatraea crambidoides) Corn earworm (Helicoverpa zea) Fall armyworm (Spodoptera frugiperda) Beet armyworm (Spodoptera exigua) Black cutworm (Agrotis ipsilon) Western bean cutworm (Striacosta albicosta) Sugarcane borer (Diatraea saccharalis) Common stalk borer (Papaipema nebris)

Insect Resistance Management

The following information regarding commercial production Bt11 x MIR162 corn must be included in the Grower Guide (or equivalent).

The refuge must be planted with corn hybrids that do not contain Bt technologies for the control of corn borers. The refuge area must represent at least 20% of the grower's corn acres (i.e. sum of [Bt11 x MIR162] acres and refuge acres) and must be planted within ½ mile of these corn hybrids. The refuge may be planted as a separate field, perimeter strips, or in-field strips. If perimeter strips are implemented, the strips must be at least four, and preferably six consecutive rows wide. If strips within the [Bt11 x MIR162] field are implemented, then at least four, and preferably six consecutive rows should be planted (See diagrams below). The refuge may be treated with a soil-applied or seed-applied insecticide to control rootworm larvae and other soil pests. The refuge can also be treated with a foliar insecticide for control of corn pests only if the economic threshold for one or more pests is reached. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt maize refuges.

The following are schematics of the various refuge deployment options:

Separate Fields



Blocks



Perimeter





Bt11 x MIR162 Corn Seed

[Alternate brand name: AgrisureTM 2100]

Plant-incorporated protectant: Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:

Other Ingredients:

*Percent (wt/wt) of whole plant on a dry weight basis

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-EPA Establishment No. 66736-NC-01 Syngenta Seeds, Inc. - Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Rd. Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran insects:

European corn borer (Ostrinia nubilalis) Southwestern corn borer (Diatraea grandiosella) Southern cornstalk borer (Diatraea crambidoides) Corn earworm (Helicoverpa zea) Fall armyworm (Spodoptera frugiperda) Beet armyworm (Spodoptera exigua) Black cutworm (Agrotis ipsilon) Western bean cutworm (Striacosta albicosta) Sugarcane borer (Diatraea saccharalis) Common stalk borer (Papaipema nebris)

Insect Resistance Management

The following information regarding commercial production Bt11 x MIR162 corn must be included in the Grower Guide (or equivalent).

The refuge must be planted with corn hybrids that do not contain Bt technologies for the control of corn borers. The refuge area must represent at least 20% of the grower's corn acres (i.e. sum of [Bt11 x MIR162] acres and refuge acres) and must be planted within ½ mile of these corn hybrids. The refuge may be planted as a separate field, perimeter strips, or in-field strips. If perimeter strips are implemented, the strips must be at least four, and preferably six consecutive rows wide. If strips within the [Bt11 x MIR162] field are implemented, then at least four, and preferably six consecutive rows should be planted (See diagrams below). The refuge may be treated with a soil-applied or seed-applied insecticide to control rootworm larvae and other soil pests. The refuge can also be treated with a foliar insecticide for control of corn pests only if the economic threshold for one or more pests is reached. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt maize refuges.

The following are schematics of the various refuge deployment options:

Separate Fields



Blocks



Perimeter





Bt11 x MIR162 Corn Seed

[Alternate brand name: AgrisureTM 2100]

Plant-incorporated protectant: Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:

Other Ingredients:

*Percent (wt/wt) of whole plant on a dry weight basis

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-EPA Establishment No. 66736-NC-01 Syngenta Seeds, Inc. - Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Rd. Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran insects:

European corn borer (Ostrinia nubilalis) Southwestern corn borer (Diatraea grandiosella) Southern cornstalk borer (Diatraea crambidoides) Corn earworm (Helicoverpa zea) Fall armyworm (Spodoptera frugiperda) Beet armyworm (Spodoptera exigua) Black cutworm (Agrotis ipsilon) Western bean cutworm (Striacosta albicosta) Sugarcane borer (Diatraea saccharalis) Common stalk borer (Papaipema nebris)

Insect Resistance Management

The following information regarding commercial production Bt11 x MIR162 corn must be included in the Grower Guide (or equivalent).

The refuge must be planted with corn hybrids that do not contain Bt technologies for the control of corn borers. The refuge area must represent at least 20% of the grower's corn acres (i.e. sum of [Bt11 x MIR162] acres and refuge acres) and must be planted within ½ mile of these corn hybrids. The refuge may be planted as a separate field, perimeter strips, or in-field strips. If perimeter strips are implemented, the strips must be at least four, and preferably six consecutive rows wide. If strips within the [Bt11 x MIR162] field are implemented, then at least four, and preferably six consecutive rows should be planted (See diagrams below). The refuge may be treated with a soil-applied or seed-applied insecticide to control rootworm larvae and other soil pests. The refuge can also be treated with a foliar insecticide for control of corn pests only if the economic threshold for one or more pests is reached. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt maize refuges.

The following are schematics of the various refuge deployment options:

Separate Fields



Blocks



Perimeter





Bt11 x MIR162 Corn Seed

[Alternate brand name: AgrisureTM 2100]

Plant-incorporated protectant: Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:

Other Ingredients:

*Percent (wt/wt) of whole plant on a dry weight basis

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-EPA Establishment No. 66736-NC-01 Syngenta Seeds, Inc. - Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Rd. Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran insects:

European corn borer (Ostrinia nubilalis) Southwestern corn borer (Diatraea grandiosella) Southern cornstalk borer (Diatraea crambidoides) Corn earworm (Helicoverpa zea) Fall armyworm (Spodoptera frugiperda) Beet armyworm (Spodoptera exigua) Black cutworm (Agrotis ipsilon) Western bean cutworm (Striacosta albicosta) Sugarcane borer (Diatraea saccharalis) Common stalk borer (Papaipema nebris)

Insect Resistance Management

The following information regarding commercial production Bt11 x MIR162 corn must be included in the Grower Guide (or equivalent).

The refuge must be planted with corn hybrids that do not contain Bt technologies for the control of corn borers. The refuge area must represent at least 20% of the grower's corn acres (i.e. sum of [Bt11 x MIR162] acres and refuge acres) and must be planted within ½ mile of these corn hybrids. The refuge may be planted as a separate field, perimeter strips, or in-field strips. If perimeter strips are implemented, the strips must be at least four, and preferably six consecutive rows wide. If strips within the [Bt11 x MIR162] field are implemented, then at least four, and preferably six consecutive rows should be planted (See diagrams below). The refuge may be treated with a soil-applied or seed-applied insecticide to control rootworm larvae and other soil pests. The refuge can also be treated with a foliar insecticide for control of corn pests only if the economic threshold for one or more pests is reached. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt maize refuges.

The following are schematics of the various refuge deployment options:

Separate Fields



Blocks



Perimeter





Bt11 x MIR162 Corn Seed

[Alternate brand name: AgrisureTM 2100]

Plant-incorporated protectant: Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:

Other Ingredients:

*Percent (wt/wt) of whole plant on a dry weight basis

CAUTION KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-EPA Establishment No. 66736-NC-01 Syngenta Seeds, Inc. - Field Crops - NAFTA P.O. Box 12257 3054 East Cornwallis Rd. Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran insects:

European corn borer (Ostrinia nubilalis) Southwestern corn borer (Diatraea grandiosella) Southern cornstalk borer (Diatraea crambidoides) Corn earworm (Helicoverpa zea) Fall armyworm (Spodoptera frugiperda) Beet armyworm (Spodoptera exigua) Black cutworm (Agrotis ipsilon) Western bean cutworm (Striacosta albicosta) Sugarcane borer (Diatraea saccharalis) Common stalk borer (Papaipema nebris)

Insect Resistance Management

The following information regarding commercial production Bt11 x MIR162 corn must be included in the Grower Guide (or equivalent).

The refuge must be planted with corn hybrids that do not contain Bt technologies for the control of corn borers. The refuge area must represent at least 20% of the grower's corn acres (i.e. sum of [Bt11 x MIR162] acres and refuge acres) and must be planted within ½ mile of these corn hybrids. The refuge may be planted as a separate field, perimeter strips, or in-field strips. If perimeter strips are implemented, the strips must be at least four, and preferably six consecutive rows wide. If strips within the [Bt11 x MIR162] field are implemented, then at least four, and preferably six consecutive rows should be planted (See diagrams below). The refuge may be treated with a soil-applied or seed-applied insecticide to control rootworm larvae and other soil pests. The refuge can also be treated with a foliar insecticide for control of corn pests only if the economic threshold for one or more pests is reached. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt maize refuges.

The following are schematics of the various refuge deployment options:

Separate Fields



Blocks



Perimeter





Section IV. Product Analysis

Volume 2 of this application characterizes the genetic modifications made to corn that resulted in the transformation of events Bt11 and MIR162 (and GA21) (DeFramond, 2007). The transgenes associated with these events were brought together in a combined-trait hybrid by conventional breeding. Southern blot analyses demonstrated the intact presence of the transgenes from Bt11 and MIR162 (and GA21) in the combined trait hybrid.

Volume 3 describes the results of enzyme linked immunosorbent assay (ELISA) analyses to compare the levels of the transgenic proteins produced in a Bt11 x MIR162 (x GA21) hybrid to those produced in near-isogenic individual event hybrids Bt11, MIR162 (and GA21) (McDonald, 2007). These analyses demonstrate that levels of the transgenic proteins in the combined trait hybrid are comparable to levels found in the respective single trait parental lines. Two small and minor statistical differences were identified in Cry1Ab concentration in leaves at whorl stage and whole plants at anthesis. And one minor statistical difference was identified in Vip3Aa20 concentration in pollen. These differences are of no biological significance, and consequently do not warrant any additional analysis.

Section V. Residue Data

The *Bacillus thuringiensis* Cry1Ab δ -endotoxin and the genetic material necessary for its production in all plants are exempt from tolerance requirements under 40 CFR §174.511. The marker substance in Bt11, phosphinothricin acetyltransferase (PAT) enzyme, and the genetic material necessary for its production in all plants is exempt from the requirement of a tolerance under 40 CFR §174..522..

The *Bacillus thuringiensis* Vip3Aa20 and the genetic material necessary for its production in all plants is under a temporary exemption from tolerance requirements in MIR162 corn under 40 CFR §174.528. The marker substance in MIR162, phosphomannose isomerase (PMI) enzyme, and the genetic material necessary for its production in all plants is exempt from the requirement of a tolerance under 40 CFR §174.527.

Along with this application, a petition to establish a permanent tolerance for Vip3Aa20 in corn is being submitted. As part of that application, MIR162 protein expression analysis is described in:

Hill, K. (2006). Quantification of Vip3Aa20 and phosphomannose isomerase (PMI) in tissues of maize derived from transformation event MIR162. Syngenta Report #SSB-020-06 Volume 6 of the concurrent MIR162 application for registration.

Section VI. Nontarget Organism Data

Studies have been conducted by Syngenta and others that adequately characterize the potential hazards of Bt11 corn and MIR162 corn. Studies have also been conducted assessing the potential for Cry1Ab and Vip3A to interact in a way that could increase their environmental risk when combined in the same plant. These studies were previously submitted to EPA and are referenced by MRID in the Data Matrix or are included in the concurrent MIR162 and Bt11 x MIR162 x MIR604 applications for registration.

Section VII. Toxicology Data

Not Applicable to this application for registration

Section VIII. Efficacy Data

Data demonstrating the efficacy of Bt11 plants for limiting corn borer feeding damage and data demonstrating the efficacy of MIR162 plants for limiting corn earworm and fall armyworm feeding damage have previously been submitted to EPA and are referenced in the Data Matrix by MRID. Volumes 5, 6 and 7 of this application compare the efficacy of the combined-trait product Bt11 x MIR162 x GA21 to Bt11 corn for corn borer feeding damage and MIR162 corn for corn earworm feeding damage and fall armyworm feeding damage.