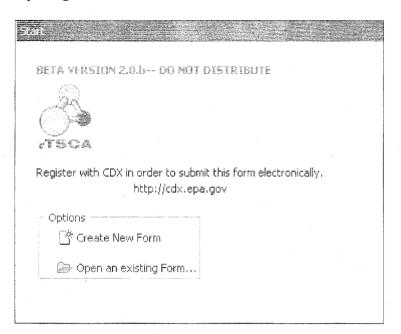
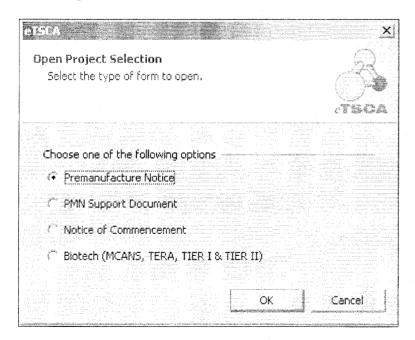
Opening Screen



Create/Open choices



Screen Shots of the PMN Form

PMN Form - Instruction page

GENERAL INSTRUCTIONS

General Instructions Page 1 Page 1 continued

When completed send this form to

DOCUMENT CONTROL OFFICER
OFFICE OF POLLUTION PREVENTION AND TOXIC SUBSTANCES, 7407
U.S. EPA 1200 Pennsylvania, NW
WASHINGTON, DC 20460

General Instructions

- You must provide all information requested in this form to the extent that it is known to or reasonably
 ascertainable by you. Make reasonable estimates if you do not have actual data.
- Before you complete this form, you should read the "Instructions Manual for Premanufacture Notification" (the Instructions Manual is available from the Toxic Substances Control Act (TSCA) Information Service by calling 202-554-1404, or faxing 202-554-5603).
- If a user fee has been remitted for this notice (40 CFR 700.45), indicate in the "TS" field the TS-user fee
 identification number you have generated. Remember, your user fee ID number must also appear on your
 corresponding fee remittance, which is sent to EPA, Washington Financial Management Center (3303), P.O.
 360399M, Pittsburgh, PA 15251-6399, Attn. TSCA User fee.
- All fields are mandatory except for those denoted with < >
- If a field value is not known, enter 'NRO' for 'Not Readily Obtainable'

Part I -- GENERAL INFORMATION

You must provide the currently correct Chemical Abstracts (CA) Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submission will not be complete and the review will not begin until EPA receives this information. A letter in support of your submission should reference your TS user fee identification number. You must submit an original and two copies of this notice including all test data. If you claimed any information as confidential, a single sanitized copy must also be submitted.

Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

If there are several manufacture, processing, or use operations to be described in Part II, sections A and B of this notice, reproduce the sections as needed.

Part III -- LIST OF ATTACHMENTS

Attach additional sheets if there is not enough space to answer a question fully. Label each continuation sheet with the corresponding section heading. In Part III, list these attachments, any test data or other data and any optional information included in the notice.

OPTIONAL INFORMATION

You may include any information that you want EPA to consider in evaluating the new substance. On page 11 of this form, space has been provided for you to describe pollution prevention and recycling information you may have regarding the new substance. So-called "binding" boxes are included throughout this form for you to indicate your willingness to be bound to certain statements you make in this section, such as use, production volume, protective equipment . . . This option is intended to reduce delays that routinely accompany the development of consent orders or Significant New Use Rules. Except in the case of exemption applications (such as TMEA, LVE, LOREX) where certain information provided in such notification is binding on the submitter when the Agency approves the exemption application, checking a binding box in this notice does not by itself prohibit the submitter from later deviating from the information (except chemical identity) reported in the form.

GENERAL INSTRUCTIONS		He Comment	
General Instructions Page 1 Page 1 conti			
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C LOREX (Low Release/Low Exposure Ex	xemption)@ 40 CFR 723.50(c)(2)		4
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GERTIFICATION.

Public reporting burden for this collection of information is estimated to average 110 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M. St., S.W., Washington, D.C. 20460; and to the Office of Management and Budget, Paperwork Reduction Act (2070-0012), Washington, D.C. 20503.

- I Certify to the best of my knowledge and belief:
- The company named in Part I, section A, subsection 1a of this notice form intends to manufacture or import
 for a commercial purpose, other than in small quantities solely for research and development, the substance
 identified in Part I, Section B.
- 2. All information provided in this notice is complete and truthful as of the date of submission.
- I am submitting with this notice all test data in my possession or control and a description of all other data known to or reasonably ascertainable by me as required by §720,50 of the Premanufacture Notification Rule.

User Fee Certification

If you are submitting a PMN, Intermediate PMN, Consolidated PMN, or SNUN, check the following user fee certification statement that applies:

- The Company named in Part I, Section A has remitted the fee of \$2500 specified in 40 CFR 700.45(b), or
- The Company named in Part I, Section A has remitted the fee of \$1000 for an Intermediate PMN (defined @ 40 CFR 700.43) in accordance with 40 CFR 700.45(b), or
- The Company named in Part I Section A is a small business concern under 40 CFR 700.43 and has remitted a
 fee of \$100 in accordance with 40 CFR 700.45(b).

LVE or LoREX Certification

If you are submitting a low volume exemption (LVE) application in accordance with 40 CFR 723.50 (c)(1) or a Low release and low exposure exemption (LoREX) application in accordance with 40 CFR 723.50 (c)(2), check the following certification statements:

- The manufacturer submitting this notice intends to manufacture or import the new chemical substance for commercial purposes, other than in small quantities solely for research and development, under the terms of 40 CFR 723.50.
- The manufacturer is familiar with the terms of this section and will comply with those terms; and
- The new chemical substance for which the notice is submitted meets all applicable exemption conditions.
- If this application is for an LVE in accordance with 40 CFR 723,50(c)(1), the manufacturer intends to commence manufacture of the exempted substance for commercial purposes within 1 year of the date of the expiration of the 30 day review period.

PMN Form - General information page (PMN page 3)

Part I GENERAL INFORMATION	
Section A Submitter Identification	
1a. Person Submitting Notice (in U.S.) [Copy	From Profile] CBI
Name of authorized official	Position
Company	
Mailing Address (number and street)	
City	State ZIP Code
1b. Agent (if applicable) [Copy From Profile]	
Name of authorized official	Position
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if you are submitting this notice as part of	
1c. Joint Submitter (if applicable) [Copy From	되었는 그 이 사람이는 다양이 하는 생활이 되는 사람들이 하는 사람들이 없다.
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PMN Form - Header page for ID pages (PMN pages 4, 5 and 6)

人 Chemical Header Page	
Chemical Type	
Complete either item 1 (Class 1 or 2 substances, PMN Page 4) and/or 2 (Polymers, PMN Page 5) as appropulation you intend to complete below.	riate. Indicate
☐ 1. Class 1 or 2 Substance	
☐ 2. Polymer () () () () () () () () () (
☐ If another person will submit chemical identity information for you (for either item 1 or 2), mark the bo	x at the left

PMN Form - PMN page 4

👶 Part I — GENERAL IMFO	ORMATION Continued		-100	715	
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d. Molecular Formula					L CBI
e. Chemical Structure D	iagram ? [Attach File]				

🚜 Part I — GENERAL INFORMA	MON Continued
Class 1 or 2 Substances Page 4	Page 4a
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e.(2) Nature of Reaction	
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e.(3) Range of Composition	
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ymers Page 5 Page 5a ection B Chemical Identil	ry Information Continue				
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PMN Form - PMN page 5a

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PMN Form - Header page for exposures/releases (PMN pages 8, 9 and 10) PM PORT II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

Overview

Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at industrial sites you control. Importers do not have to complete this section for operations outside the U.S.; however, you may still have reporting requirements if there are further industrial processing or use operations after import. You must describe these operations. See instructions manual.

Complete section B for typical processing or use operations involving the new chemical substance at sites you do not control. Importers do not have to complete this section for operations outside the U.S.; however, you must report any processing or use activities after import. See the Instructions Manual. Complete a separate section B for each type of processing, or use operation involving the new chemical substance. If the same operation is performed at more than one site describe the typical operation common to these sites.

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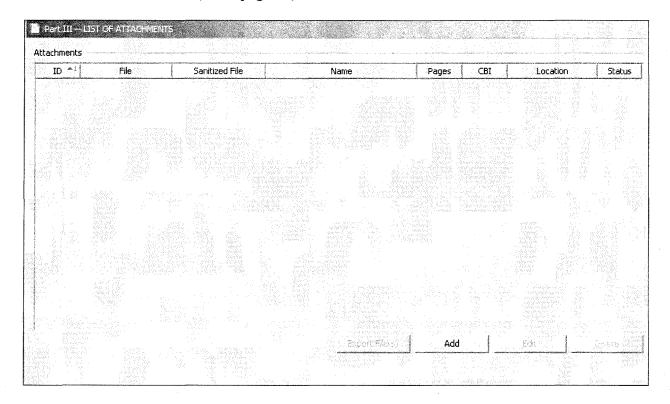
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PMN Form - Optional Pollution Prevention (PMN page 11)

Coptional Polition Prevention Information To claim information as confidential, place the specific information that you claim as confidential between braces (e.g. {cbi text}) In this section you may provide information not reported elsewhere in this form regarding your efforts to reduce or minimize potential risks associated with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source reduction, recycling activities and safer processes or products available due to the new chemical substance. Source reduction includes the reduction in the amount or toxicity of chemical wastes by technological modification, process and procedure modification, product reformulation, raw materials substitution, and/or inventory control. Recycling refers to the reclamation of useful chemical components from wastes that would otherwise be treated or released as air emissions or water discharges, or land disposal. Descriptions of pollution prevention, source reduction and recycling should emphasize potential risk reduction subsequent to compliance with existing regulatory requirements and can be either quantitative or qualitative. The EPA is interested in the information to assess overall net reductions in toxicity or environmental releases and exposures, not the shifting of risks to other environmental media or nonenvironmental areas (e.g., occupational or consumer exposure). In addition, information on the relative cost or performance characteristics of the PMN substance to potential alternatives may be provided. All information provided in this section will be taken into consideration during the review of this substance, See PMN Instructions Manual and Pollution Prevention Guidance manual for guidance and examples. Describe the expected net benefits, such as (1) an overall reduction in risk to human health or the environment; (2) a reduction in the volume manufactured; (3) a reduction in the generation of waste materials through recycling, source reduction or other means; (4) a reduction in potential toxicity or human exposure and/or environmental release; (5) an increase in product performance, a decrease in the cost of production and/or improved operation efficiency of the new chemical substance in comparison to existing chemical substances used in similar application; or (6) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall risk to human health or the environment. Check here to include an attachment

PMN Form - Attachments (PMN page 12)



PMN Form - Properties Worksheet (PMN page 13)

Chemical Properties Worksheet

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PMN Form - Cover letter (optional)

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Printed PMN Form

Cover Letter

Optional cover letter goes in this space.



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				INSTRUCTIONS			
Before you complete this form (TSCA) information Service b If a user fee has been remitted must also appear on your contact.	, you should read the "Instructions y calling 202-554-1404, or faxing 2 I for this notice (40 CFR 700.45), i	Manual for 202-554-560 ndicate in th s sent to EP	Premanufact 3). le boxes abo A, Washingti	ture Notification" (the Instr ve the TS-user fee identifie on Financial Management	uctions Ma cation nun Center (3	anual is available f nber you have gen 303), P.O. 360399	stimates if you do not have actual data. from the Toxic Substances Control Act herated. Remember, your user fee ID number BM, Pittsburgh, PA 15251-6399, Attn. TSCA
Part I – GENERAL INFO	RMATION		TEST D	ATA AND OTHER I	DATA		
You must provide the currenth Name of the new chemical su identity as confidential. You m submit chemical identity inform will not be complete and the receives this information. A let should reference your TS use Section 5 Notice submissions submit an original notice incluinformation as confidential, an submitted.	bstance, even if you claim the ay authorize another person nation for you, but your subm eview will not begin until EPA tter in support of your submiss of the identification number. For (paper or electronic) you must ding all test data; if you claims	e to ission sion or all st ed any	description related to commerce be submitted to summ should clear chemical of test data.	n of all other data know the health and enviror, e, use, or disposal of the ted for data in the ope aries of data, must be early identify whether to composition of the test	wn to or I nmental e he new o n scientif submitte est data ted mate a should	reasonably asceptificates on the machemical substatic literature. Code if they do not is on the substatical should be cobe submitted acception.	on or control and to provide a ertainable by you, if these data are lanufacture, processing, distribution in nec. Standard literature citations may implete test data (written in English), appear in the open literature. You ance or on an analog. Also, the haracterized. Following are examples excording to the requirements of R Part 720).
Part II – HUMAN EXPOSI RELEASE	URE AND ENVIRONMEN	ITAL		Test Data (0	Check B	elow any inclu	ded in this notice)
If there are several manufactu be described in Part II, section				Environmental fate of	data		Other Data
the sections as needed.			See recovered in	Health effects data		Luconecon	Risk Assessments
Part III – LIST OF ATTAC For paper submissions, attach enough space to answer a qu sheet with the corresponding:	n additional sheets if there is r estion fully. Label each contin	nuation	Environmental effects data Structure/activity relationship. Physical/Chemical Properties (A physical and chemical properties workshed located on the last page of this form.)				
attachments, any test data or information included in the not	other data and any optional	X 1,11000		Test data not in the	, •	, .	the submitter
OPTIONAL INFORMATIO) N			TYF	PE OF N	OTICE (Check	Only One)
You may include any informat evaluating the new substance	. On page 11 of this form, spa		X	PMN (Premanufactu		•	only one,
been provided for you to desc recycling information you may	have regarding the new subs			SNUN (Significant N	lew Use	Notice)	
"Binding" boxes are included to indicate your willingness to be make in this section, such as a	bound to certain statements	you		TMEA (Test Marketi	ng Exem	nption Applicatio	on)
equipment The intention is accompany the development of	of consent orders or Significal	nt New		LVE (Low Volume E	xemption	n) @ 40 CFR 72	23.50(c)(1)
Use Rules. Checking a "bindir prohibit the submitter from late	er deviating from the informati	on		LOREX (Low Release	se/Low E	Exposure Exemp	otion) @ 40 CFR 723.50(c)(2)
(except chemical identity) repo case of exemption application certain information provided in	s (such as TMEA, LVE, LORE	EX)		LVE Modification			
submitter when the Agency ap especially if the production vol	proves the exemption applica	ation,		LOREX Modification	t		
LVE.		•		Mock Submission			
CONFIDENTIALITY CLAI You may claim any information		. To		Mark (X) if pendin	g Letter	r of Support	• •
assert a claim on the form, ma the information that you claim	ark (X) the confidential box ne	xt to		IS THIS A CONSOL	IDATED	PMN (Y/N)?	
an attachment, circle or brack confidential. If you claim inforr you must also provide a saniti	et the information you claim a nation in the notices as confic	s <u>iential,</u>	***************************************				ommunication # required, enter # on
attachments). For additional in as confidential, read the Instru	structions on claiming inform			Mark (X) if any inform	nation in	this notice is cl	aimed as confidential.



PMN Page 2

Public reporting burden for this collection of information is estimated to average 110 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Collection Strategies Division (2822), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460; and to the Office of Management and Budget, Paperwork Reduction Act (2070-0012), Washington, D.C. 20503.

CERTIFICATION -- A printed copy of this signature page, with original signature, must be submitted with CD or paper submission.

I certify that to the best of my knowledge and belief:

- 1. The company named in Part I, section A, subsection 1a of this notice form intends to manufacture, import or process for a commercial purpose, other than in small quantities solely for research and development, the substance identified in Part I, Section B.
- 2. All information provided in this notice is complete and truthful as of the date of submission.
- 3. I am submitting with this notice all test data in my possession or control and a description of all other data known to or reasonably ascertainable by me as required by §720.50 of the Premanufacture Notification Rule.

Additional Certification Statements:

If you are submitting a PMN, Intermediate PMN, Consolidated PMN, or SNUN, check the following **user fee** certification statement that applies:

X	The Company named in Part I, Section A has remitted the fee of \$2500 spec	ified in 40	CFR 700.45(b), or	
	The Company named in Part I, Section A has remitted the fee of \$1000 for a accordance with 40 CFR 700.45(b), or	n Interme	diate PMN (defined @ 40 CFR	700.43) in
	The Company named in Part I Section A is a small business concern under accordance with 40 CFR 700.45(b).	40 CFR 70	00.43 and has remitted a fee of	\$100 in
Low Rele	submitting a Low Volume Exemption (LVE) application in acease and Low Exposure Exemption (LoRex) application in aceing certification statements:			
	The manufacturer submitting this notice intends to manufacture or import the other than in small quantities solely for research and development, under the			Il purposes,
	The manufacturer is familiar with the terms of this section and will comply w	ith those te	erms; and	
	The new chemical substance for which the notice is submitted meets all app	olicable ex	emption conditions.	
	If this application is for an LVE in accordance with 40 CFR 723.50(c)(1), the the exempted substance for commercial purposes within 1 year of the date of			
anticipate	racy of the statements you make in this notice should reflect your facts regarding the chemical substance described herein. An sentation is subject to criminal penalty pursuant to 18 USC 100	y knowi		Confidential
Signature a Authorized (Signature R	Official (Original	Date		
Signature of		Date		



P3C1

Secti	ion A	. – SUBMITTER IDE		FICATION			IFORWATION			
1a.		Mar Person Submittin				t to any s	ubsection you claim	n as co	nfidential	Confidential
	of Au	thorized Official	y NO	tice (iii 0.3	,,)					Communition
Positio										
Comp				at a control and						
		iress (number & street)		The second secon						
City	9 / (00	ress (number & street)		·	State		Postal Code	T		
email				The state of the s	Otate		1 ostal oode			<u> </u>
b.		Agent (if Applicat	le)				<u> </u>			Confidential
	of Au	thorized Official								
Positio	 on									-
Comp				·					THE TAXABLE PROPERTY OF THE PR	
·		Iress (number & street)			· · · · · · · · · · · · · · · · · · ·				to all the second secon	
City	7	() and () and ()	İ		State		Postal Code			
e-mail					Otate	Telepho	ne			-
		Joint Submitter (i	fons	liophia)		(include	area code)			Confidential
C.	are si	ubmitting this notice as p			ion mark (Υ)				Connidential
		uthorized Official		a journ odormou	Ton, many	.,,			- Comments of	-
-		MITOTIZEG OTHCIAI			Mark that and all years the principle in the addition				AND CONTRACT OF STREET OF STREET OF STREET, STREET OF STREET, STREET, STREET, STREET, STREET, STREET, STREET,	
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Comp						****	······························			
Mailin	g Add	lress (number & street)			T		T			
City					State		Postal Code			_
Provin	nce			Country	,		Telephone (include country or area code)			
2.		Technical Contac	t (in	U.S.)						Confidential
Name	of Au	thorized Official								
Positio	on									
Comp	any									
Mailing	g Add	lress (number & street)								
City	<u> </u>				State		Postal Code			-
					1	Telepho				_
e-mail			-			(include	area code)		1	O set deserted
3.	this	ou have had a prenotice of notice and EPA assigned or the number.				1			Mark (X) if none	Confidential
		ou previously submitted a					V		Mark (X) if none	Confidential
4.	exer subr	mical substance covered mption number assigned mitted a PMN for this sub	by EF stanc	A. If you previ e enter the PM	ously					
		gned by EPA (i.e. withdra ou have submitted a notic			to				Mark (X) if none	Confidential
5.	man	nu have submitted a notic nufacture or import for the his notice, enter the notic	chen	nical substance	e covered					
6.					Туре	of Notic	e – Mark (X)			
	Man	ufacture Only		Imp	port Only			_	B # 527	
1.	Bind	ling Option]	2. Bin	iding Optio	n		3.	Both X	



P4C1

Part - GE) Section B - CHEMICAL IDENTITY INFORMATION:	You must provide		nemical Abstracts (CA) name o	of the substance
	l	CA index nomenclatu ny item you claim as i	re rules and conventions.	
Complete either item 1 (Class 1 or 2 substances) or 2 (P				
If another person will submit chemical identity information the name, company, and address of that person in a con		tem 1 or 2), mark (X)	the box at the right. Identify	
Class 1 or 2 chemical substances (for definitions of c 2 substances, see the Instructions Manual)	A THE RESERVE OF THE PROPERTY OF THE PARTY OF THE PARTY.	Class 1	Class 2	СВІ
a. Class of substance - Mark (X)				
b. Chemical name (Currently correct Chemical Abstract substances. For Class 1 substances a CA Index Nan	is (CA) Name that is ne must be provided	consistent with TSC/ . For Class 2 substar	A Inventory listings for similar noces either a CA Index Name o	or CA
Preferred Name must be provided, which ever is app				
		¥		
			,	
CAS Registry Number (if a number already exists for				
 Please identify which method you used to develop or Method 1 (CAS Inventory Expert Service - a copy of 	the	IES Order	Method 2	e: (check one).
Identification report obtained from the CAS Inventory Services must be submitted as an attachment to this		Number	(Other Source)	
Enter Attachment filename for Part I, Section B, 1. c.				
d. Molecular formula				
 For a class 1 substance, provide a complete and con- representative or partial chemical structure diagram, 				rect



PMN Page 4a

For a class 2 substance - (1) List the immediate precursor substances with the nature of the reaction or process. (3) Indicate the range of composition	their respective CAS Regis and the typical composition	stry Numbers. (2) Describe a (where appropriate).	Confidential
e. (1) List the immediate precursor substance names with their respective	CAS Registry Numbers.		
Enter Attachment filename for Part I, Section B, 1. e. (1)			
e. (2) Describe the nature of the reaction or process.	ACCUPATION OF THE PROPERTY OF		
Enter Attachment filename for Part I, Section B, 1. e. (2)			
e. (3) Indicate the range of composition and the typical composition (where	e appropriate).		
		•	
			-
Enter Attachment filename for Part I, Section B, 1. e. (3)			



P5C1

	rt I GENERAL			Con	tinued							
Section B CHEMICAL IDEN			ued					Confider	otiol			
Polymers (For a definition of polyme Indicate the number-average weight Indicate maximum weight percent of below 500 and below 1,000 absolutions.)	it of the lowest molecular w if low molecular weight spe	veight compo						Comider	illai			
	escribe the methods of me		the basis for y	our es	timates:							
GPC Othe	er (Specify Below)											
Specify Other:		<u> </u>										
(i) lowest number average molecular weight:	(ii) maximum weight	t % below 50 veight:	0 molecular	(iii)) maximum w	eight % be weight		00 molecu	lar			
								-				
Enter Attachment filename for Pa b. You must make separate confidentia												
 (X) the "Confidential" box next to any it (1) - Provide the specific chemical manufacture of the polymer. (2) - Mark (X) this column if entry ir (3) - Indicate the typical weight per (4) - Choose "yes" from drop down the polymer description on the (5) - Mark (X) this column if entries (6) - Indicate the maximum weight manufactured for commercial (7) - Mark (X) this column if entry in 	name and CAS Registry Nursell column (1) is confidential, cent of each monomer or or menu if you want a monom TSCA Chemical Substancin columns (3) and (4) are percent of each monomer opurposes.	ther reactant ner or other re te Inventory. confidential.	in the polymer eactant used a	t two w	eight percent	or less to	be liste	d as part o	of			
Monomer or other	reactant specific chemical	name		СВІ	Typical composition	Include in identity	CBI	Max residual	СВІ			
	(1)	·	-	(2)	(3)	(4)	(5)	(6)	(7)			
CAS Registry Number (1)					40-00-0		***********					
CAS Registry Number (1)												
CAS Registry Number (1)												
CAS Registry Number (1)								WINE CONTROL OF THE PARTY OF TH				
CAS Registry Number (1)												
Mark (X) this box if the data continues	on the next page.					L		Chian distri				



P5AC1

PMN Page 5a

check one).		op or obtai	o or obtain the specified chemical identity information reported in this no						
Method 1 (CAS Inventory E - a copy of the identification re- from CAS Inventory Expert Se submitted as an attachment to	port obtained rvice must be		IES Order Number		lethod 2 her source)				
Enter Attachment filename for Pa					•				
The currently correct Chemical polymers.	l Abstracts (CA) r	name for th	ne polymer that is cons	sistent with TSCA Inver	tory listings for similar				
polymers.	<u>, , , , , , , , , , , , , , , , , , , </u>	······································							
		····							
CAS Registry Number (if a ne	umber already ex	dists for the	e substance)						
Provide a correct representative ascertained.	ve or partial chen	nical struct	ture diagram, as comp	olete as can be known,	f one can be reasonably				
					•				



P6C1

PMN Page 6

Part I -- GENERAL INFORMATION -- Continued Section B -- CHEMICAL IDENTITY INFORMATION -- Continued 3. Impurities Identify each impurity that may be reasonably anticipated to be present in the chemical substance as manufactured for commercial (a) purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, enter "unidentified." Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate their total weight % (b) -CAS Registry Maximum Confi-Impurity (a) Number Percent % dential (a) (b) Mark (X) this box if the data continues on the next page. 4. Synonyms - Enter any chemical synonyms for the new chemical identified in subsection 1 or 2. Enter Attachment filename for Part I, Section B, 4. 5. Trade identification - List trade names for the new chemical substance identified in subsection 1 or 2. Enter Attachment filename for Part I, Section B, 5. 6. Generic chemical name - If you claim chemical identify as confidential, you must provide a generic name for your substance that reveals the specific chemical identity of the new chemical substance to the maximum extent possible. Refer to the TSCA Chemical Substance Inventory, 1985 Edition, Appendix B for guidance on developing generic names. Enter Attachment filename for Part I, Section B, 6. 7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of the new chemical substance. Provide the CAS Registry Number if available. CAS Registry Number Confi-Byproduct (1) (2)dential Mark (X) this box if the data continues on the next page.



. P7∩1

Part I GI					N	Co	ontin	ued					
Section C PRODUCTION, IMPORT, AND	USE	INFORM	IATION	:									
The information on this page refers to consolidated				1		2	- Innerer	3	4	- Landerson	5	6	
Mark (X) the "Cor 1. Production volume Estimate the maximum production and consecutive 12-month period durin For a Low Volume Exemption application, if you of volume and mark (x) in the binding box. If granted,	duction v g the firs noose to	olume dur st three yea have your	ing the firs ars of proc notice re	st 12 m duction viewed	onths . Estim	of pr ates	oduction should	n. Also be on 1	estimate 100% ne	w chem	nical sul	bstance	basis.
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)		Maximum	n 12-montl w chemic	n produ				C	Confident	tial		ding Opt Mark (X)	
Enter Attachment filename for Part I, Section C	; 1.										CBI		
2. Use Information You must make separate confident to each category, the formulation of the new subst confidential. a. (1)Describe each intended category of use (2)Mark (X) this column if entry column (1) (3)Indicate your willingness to have the information (4)Estimate the percent of total production (5)Mark (X) this column if entry in column (6)Estimate the percent of the new substant commercial purposes at sites under you (7)Mark (X) this column if entry in column (8)Indicate % of product volume expected for willingness to have the use type provide (9)Mark (X) this column if entry(ies) in column (9)Mark (X) this colum	of the neis confider the fit of t	ew chemic ential busi provided i rst three yea fidential bu associate fidential bu sted "use" s	al substar ness infor n column ears devol usiness inf d with eac usiness inf sectors. M	tion. Manage by 1 mation (1) bind to efformation, suspendent beformation, suspendent beformation and the model of the model of the model of the beformation and the beformation and the before the bef	ark (X) functio (CBI). ding. each ca on (CB ensions gory of on (CB tre than	the n an ategorial). s, en use at one	"Confident of application of use of use of use of use of the confidence of the confi	ential" É ation. se.	3ox next	to any	item yo	u claim	as
Category of use (1) (by function and application i.e. a dispersive dye for	CBI	Binding Option	Prod uction	СВІ	% For	in	CBI	% of	substar	ce expe	ected pe	er use	СВІ
finishing polyester fibers)	(2)	Mark (X) (3)	% (4)	(5)	ulat	ion-	(7)	Site- limited	Con- sumer*	neustrial	Com- mercial	Binding Option	(9)
				,								**	
								·					
* If you have identified a "consumer" use, please pro- consumer products. In addition include estimates of t the chemical reactions by which this substance loses	he conc	entration o	f the new	chemic	al sub	scrip stan	tion of t	he use(kpected	s) of this lin cons	s chemi umer pr	cal subs	stance in	n scribe
Mark (X) this box if the data continues on the next page			31.0311101	p. 0 d. u.o	**				***************************************				1
b. Generic use If you claim any category description Read the Instruction Man							ential, er	nter a g	eneric d	escriptio	on of th	at categ	ory.
Enter Attachment filename for Part I, Section	C, 2. b.	700								CE	31		1
3. Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the sa hazard information you include. Mark (X) this box if you attach hazard information.	d to any afe hand	person wh	no is reaso	nably l	likely to	be	expose	d to this	s substa	nce		Binding Mark	



Part	II HUM	AN EXF	POSURE A	ND EN	WIR	ONM	ENTAL					
Section A INDUSTRIAL	SITES C	ONTROLI	LED BY THE	SUBM	ITTER	\				"Confide claim as		ox next to ential
The information on pages 8 and	d 8a refer to	consolidate	ed chemical nur	nber(s):		1	2	3	1	4	5	6
Complete section A for each tyou control. Importers do not requirements if there are furth instructions manual 1. Operation description	ype of man have to con er industria	ufacture, p nplete this I processin	rocessing, or u section for oper g or use opera	se opera rations o tions aft	outside er imp	volving the U.	the new S.; howev	chemical er, you n	nay	stance a	at indu repor	strial sites ting e
a. Identity Enter the id	entity of the	site at wh	ich the operation	n will o	ccur.							dential
Name												
Site address (number and street)												
City				(County							
State					ZIP cod	е						
If the same operation will occi sites on a continuation sheet, operations, include all the info	and if any or rmation rec	of the sites juested in t	have significan	tly differ	rent pr	oductio	n rates or					
Mark (X) this box if the	data continu	es on the ne	xt page.									
b. Type Mark (X) Man	ufacturing		Process	ing			Us	e				Confi-
c. Amount and Duration	Complete											dential
1. Batch		(100	kimum kg/batch % new chemical substance)			Ho	ours/batch			Batches	/year	
alle tip being war and an action and a second and a second and the photoster on the proper particular and a second and a s	, , , , , , , , , , , , , , , , , , , ,	Ma	ximum kg/day									
2. Continuous			v chemical substa	ance)			ours/day			Days/y	ear	
d. Process description		ilitaanii aalan oo		ŀ			cate your w ess descrip]	
(1) Diagram the major u pails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note freq (3) Identify by number the	, rail car, tan the approxim ocks (includir uency if not u ie points of re	k truck, etc.) ate weight (l ig reactants ised daily or elease, inclu	i. by kg/day or kg/b , solvents, cataly: per batch.). ding small or inte	eatch on a sts, etc.), ermittent i	a 100% and of release	new ch all prod s, to the	emical subsucts, recycle	stance ba le streams	sis), s, an	and entry d wastes.	point o	of all starting e cleaning



AC1 PMN Page 8a

Diameter of the project with an austical atoms	С	onfidential
Diagram of the major unit operation steps.		
Enter Attachment filename for Part II, Section A, 1. d.		



P9C1

		I HUMAN EXPOSURE A						ntin	ued		
Section A INDUST	RIAL	SITES CONTROLLED B	Y THE S	UBMITTER	Cont	1				1	
The information on pages	9 an	d 9a refer to consolidated chem	nical num	ber(s):	1	2	3		4	5 6	3
substance, number of wo (1) Describe the adsubstance. (2) Mark (X) this composition (3) Describe any population (4) and (6) Indicate your of a mixtur (7) Mark (X) this composition (8) Estimate the more (9) Mark (X) this composition (10) and (11) Estimate the more considerable (11) Estimate the more considerable (11) Estimate the more considerable (12) Estimate the more considerable (13) Estimate	rkers ctivitie clumr rotec rour v ysical e) at clumr eaximo clumr te the	ou must make separate confidenti- exposed, and duration of activity es (i.e. bag dumping, tote filling, u in if entry in column (1) is confiden- tive equipment and engineering of villingness to have the information of form(s) of the new chemical sub- the time of exposure. In if entry in column (5) is confiden- um number of workers involved in in if entry in column (8) is confiden- e maximum duration of the activity in if entries in columns (10) and (1	Mark (X) nloading controls us provided stance (e.g. tial busine each actital busine for any w	the "Confidenti frums, sampling ss information (ed to protect wo in column (3) o g., solid: crystal ss information (vity for all sites ss information (orker in hours;	al" box ne; g, cleaning (CBI). orkers. r (5) bindir , granule, (CBI). combined (CBI). oer day an	kt to a , etc. ng. powd	any item yo) in which er, or dust	ou cla worke	im as confid irs may be e	ential: xposed to the)
Worker activity (i.e., bag dumping, filling	СВІ	Protective Equipment/	Binding Option	Physical form(s)	Binding Option	СВІ	# of Workers		Maximun	n Duration	СВІ
drums) (1)	(2)	Engineering Controls (3)	Mark (X) (4)	& % new substance (5)	Mark (X) (6)	(7)	Exposed (8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12)
						-					
					-						
		data continues on the next page.									
Enter Attachment	filena	ame for Part II, Section A on the b	ottom of p	age 9a.							



PMN Page 9a

- 3. Environmental Release and Disposal -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.
 - (1) -- Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3).
 - (2) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch).
 - (3) -- Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI).
 - (4) -- Identify the media (stack air, fugitive air (optional-see Instruction Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
 - (5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
 - (6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
 - (7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

Release Number	Amount Substance	of New Released	CBI	Medium of release e.g. Stack air	Control technology optionally	nay wish to a)	СВІ	
(1) (2a) (2b)		(3) (4)		(5a)	Binding Mark (X)	(5b)	(6)	
	-						·	
		·						
			-				·	
	-	·						
		-						
							·	
				on the next page. ses to water.		NPDES	2#	СВІ
(1) Iviair	POTWpro name(s)		Of Teleas	oo to water.		NEDES	JT	
	Navigable v - provide na	vaterway- ame(s)						PERMITTORNAL
	OtherSpe	cify				·		
	Enter Attachm	ent filename f	or Part II, S	Section A.				



P10C1

Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE – Continued Section B INDUSTRIAL SITES CONTROLLED BY OTHERS									
The information on pages 10 and 10a refer to consolidated chemical number(s):	1	2	3		4 5	6			
Complete section B for typical processing or use operations involving the new chemical complete this section for operations outside the U.S.; however, you must report any proceed a separate section B for each type of processing, or use operation involving more than one site describe the typical operation common to these sites. Identify additional confidential. (1) Diagram the major unit operation steps and chemical conversions, including pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify (2) Either in the diagram or in the text field 1(b) below, provide the identity, the chemical substance basis), and entry point of all feedstocks (including reastreams, and wastes, include cleaning chemicals (note frequency if not us (3) Either in the diagram or in the text field 1(b) below, identify by number the environment of the new chemical substance. (4) Please enter the # of sites (remember to identify the locations of these sites)	I substance poessing or use the new che onal sites or al, bracket and interim step the poession of the poessio	at sites youse activities a continumical substitution a continumical substitution according to the continumical substitution and case includes a continumical substitution according to the continumi	u do not ces after imstance. If the ation sheet e specific transport escribe each by kg/day atalysts, et aiding small	port. Sine samet. inforn contain ch work or kg/b c) and	Importers do not bee the Instruction is per action that you claim (specify - e.g. ker activity. eatch, on an 100% all products, recy	have to is Manual. Informed at laim as 5 gallon 5 new cle			
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1(b). (Optional) This space is for a text description to clarify the diagram above.					Confidential				
Enter Attachment filename for Part II. Section B on the bottom of page 10a.									



P10AC1

PMN Page 10a

2. Worker Exposure/Environmental Release

- (1) -- From the diagram above, provide the letter for each worker activity. Complete 2-8 for each worker activity described.
- (2) -- Estimate the number of workers exposed for all sites combined.
- (4) -- Estimate the typical duration of exposure per worker in (a) hours per day and (b) days per year.
- (6) -- Describe physical form of exposure and % new chemical substance (if in mixture), and any protective equipment and engineering controls, if any, used to protect workers.
- (7) -- Estimate the percent of the new substance as formulated when packaged or used as a final product.
- (9) -- From the process diagram above, enter the number of each release point. Complete 9-13 for each release point identified.
- (10) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology to the environment (in kg/day or kg/batch).
- (12) -- Describe media of release i.e. stack air, fugitive air (optional-see Instructions Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify) and control technology, if any, that will be used to limit the release of the new substance to the environment.
- (14) -- Identify byproducts which may result from the operation.
 - (3), (5), (8), (11), (13) and (15) -- Mark (X) this column if any of the proceeding entries are confidential business information (CBI).

Letter of Activity	# of Workers Exposed	СВІ		tion of osure	СВІ	Protecti	ve Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)
							- Company of the Comp			
Release Number	Amoun	t of New	Substan	ce Releas	ed	СВІ	Media of Release & Contro	Technology		СВІ
(9)	(1	0a)		(10b)		(11)	(12)			(13)
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(14) Byp	roducts:	**************************************		et er	endere en	-	ONE CONTRACTOR AND COMPANY AND CONTRACTOR AND CONTR		(15) CBI	
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PMN Page 11

OPTIONAL POLLUTION PREVENTION INFORMATION

To claim information in the following section as confidential, bracket (e.g. ()) the specific information that you claim as confidential.

In this section you may provide information not reported elsewhere in this form regarding your efforts to reduce or minimize potential risks associated with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source reduction, recycling activities and safer processes or products available due to the new chemical substance. Source reduction includes the reduction in the amount or toxicity of chemical wastes by technological modification, process and procedure modification, product reformulation, and/or raw materials substitution. Recycling refers to the reclamation of useful chemical components from wastes that would otherwise be treated or released as air emissions or water discharges, or land disposal. Quantitative or qualitative descriptions of pollution prevention, source reduction and recycling should emphasize potential risk reduction in addition to compliance with existing regulatory requirements. The EPA is interested in the information to assess <u>overall net</u> reductions in toxicity or environmental releases and exposures, not the shifting of risks to other media (e.g., air to water) or nonenvironmental areas (e.g., occupational or consumer exposure). To the extent known, information about the technology being replaced will assist EPA in its relative risk determination. In addition, information on the relative cost or performance characteristics of the PMN substance to potential alternatives may be provided.

- (1) an overall reduction in risk to human health or the environment;
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks;

(4) a reduction in potential to (5) the extent to which the ne health or the environme	w chemical substance may	l/or environmental rel	ease; or	ce that poses a greater over	all risk to human
Information provided in this s and Pollution Prevention Gui	ection will be taken into o dance manual for guidanc	consideration during ce and examples.	g the review of thi	is substance. See PMN Ins	tructions Manual
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Enter Attachment file	name for Pollution Prevention	on Page 11.	100 y 100 At A Land Land Land Land Land Land Land Land		



PMN Page 12

Part III -- LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form, test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of any paper attachments. In the Number of Pages column below, enter the inclusive page numbers of each attachment for paper submissions or enter the total number of pages for each attachment for electronic submissions. Electronic attachments can be identified by filename.

Mark (X) the "Confidential" box next to any attachment name or filename you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the

#	form a sanitized version of any attachment in which you o	Attachment Filename	Number of Pages	Associated PMN Section Number	СВІ
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PMN Page 13

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Adsorption / Coefficient									
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ATTACHMENT HEADER SHEET

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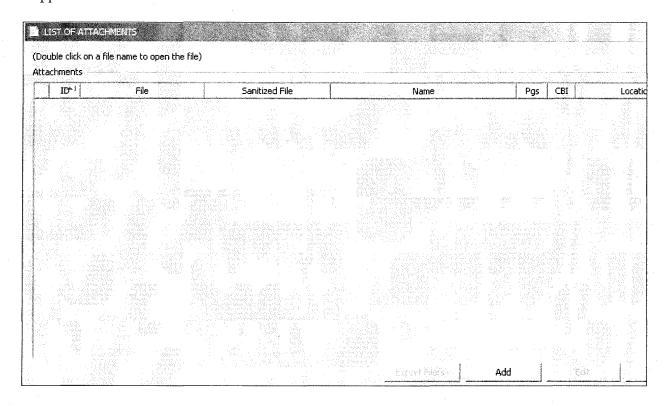
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Screen Shots of the Support Form

Support form – Main page

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Support form – Attachments section



Printed Support Document Form

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LIST OF ATTACHMENTS

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ATTACHMENT HEADER SHEET

Attachment Number 001

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Screen Shots of the NOC Form

NOC Form – Main page

	CBI Substantiation Optional Cov	ver Letter
	The state of the s	
Report Number: KATH55	September of the second	
Part I - SUBMITTER I	DEMITTATION	
Manufacturer/	Name of Authorized Official	Mailing Address (number and street) CBI
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NOC Form – Optional Cover letter form

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Printed NOC Form

Cover Letter

Enter the optional cover letter in this space.

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U.S. Environmental Protection Agency NOTICE OF COMMENCEMENT OF

Report Number

MANUFACTURE OR IMPORT (40CFR§720.102) KATH552226305 Part I - SUBMITTER IDENTIFICATION Document Control #: Name of Authorized Official Mailing Address (number and street) CBI* Manufacturer/ Importer Company Name City State Zip (in U.S.) Technical Name Telephone Number Contact (in U.S.) Part II - Premanufacture Notice (PMN) "P" Case Number: Part III - Check the appropriate box and provide the exact date of manufacture or importation: First Commercial Importation*** Χ First Commercial Manufacture** Date: Date: **Date of commencement is the date of completion of non-exempt manufacture of the first amount (bath, drum, etc.) ***For importees, the date of commencement is the date that the new chemical substance clears U.S. customs. Part IV - Manufacturing Plant Site(s) or Importing Site(s): (Importers, provide street address of destination) Part V - Specific Chemical Identity: (For Consolidated submissions, each substance must have a separate NOC form with the specific identity of each chemical substance.) Part VI - Generic Chemical Name (if chemical identity is claimed CBI*): Part VII - Substance Identity Confidentiality Status: I wish to continue to claim the substance identity confidential and the substantiation to support this claim is attached. Failure to submit Χ the required substantiation in accordance with 40 CFR 720.85(b) will result in a waiver of your claim. I previously claimed the substance identity as confidential and hereby relinquish that claim. I did not claim the substance identity as confidential in my original PMN submission. You must submit your completed notice no later than 30 calendar days after the first date of commercial manufacture/importation to the address shown below: U.S. Environmental Protection Agency OPPT Document Control Office (7407M) 1200 Pennsylvania Ave., NW Washington, D.C. 20460 ATTN: Notice of Commencement Signature of authorized official Date

Note: CBi* - refers to the term "Confidential Business Information". Mark (X) in the box if the information is to be held Confidential.

CBI Substantiation Claim

Enter the substantiation claims in this space.

			EPA]	Biotecl	h Form					
Biotech Form Report Number						Mark (X) if anything is CBI				
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