## Premanufacture Notice and Exemptions

#### BETA VERSION 2.2.1 Demo

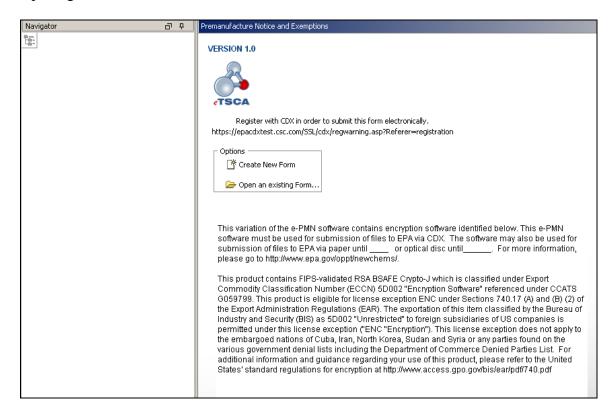
Form Approved. OMB. Nos. 2070-0012 and 2070-0038.



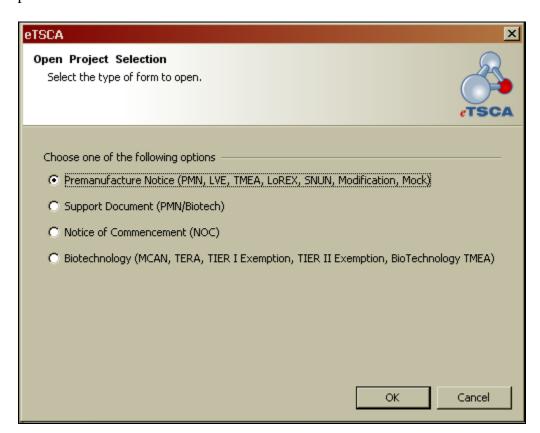
Register with CDX in order to submit this form electronically. https://epacdxtest.csc.com/SSL/cdx/regwarning.asp?Referer=registration

nulps://epacaxtest.ese.bon//ssc/cax/regwarningasp://ererer-registration
Coptions ————————————————————————————————————
Create New Form
➢ Open an existing Form
This variation of the e-PMN software contains encryption software identified below. This e-PMN software must be used for submission of files to EPA via CDX. The software may also be used for submission of files to EPA via paper until or optical disc until For more information, please go to http://www.epa.gov/oppt/newchems/.
This product contains FIPS-validated RSA BSAFE Crypto-J which is classified under Export Commodity Classification Number (ECCN) 5D002 'Encryption Software' referenced under CCATS G059799. This product is eligible for license exception ENC under Sections 740.17 (A) and (B) (2) of the Export Administration Regulations (EAR). The exportation of this item classified by the Bureau of Industry and Security (BIS) as 5D002 'Unrestricted' to foreign subsidiaries of US companies is permitted under this license exception (ENC 'Encryption'). This license exception does not apply to the embargoed nations of Cuba, Iran, North Korea, Sudan and Syria or any parties found on the various government denial lists including the Department of Commerce Denied Parties List. For additional information and guidance regarding your use of this product, please refer to the United States' standard regulations for encryption at http://www.access.gpo.gov/bis/ear/pdf/740.pdf

## 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, US Mail: U.S. Environmental Protection Agency, Washington Finance Center, Toxic Substances Control Act User Fees, P.O. Box 979073, St. Louis, MO 63197-9000. Courier Services: U.S. Environmental Protection Agency, Washington Finance Center, Toxic Substances Control Act User Fees, Lockbox 979073 - US Bank, 1005 Convention Plaza, St Louis, MO 63101

#### 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.

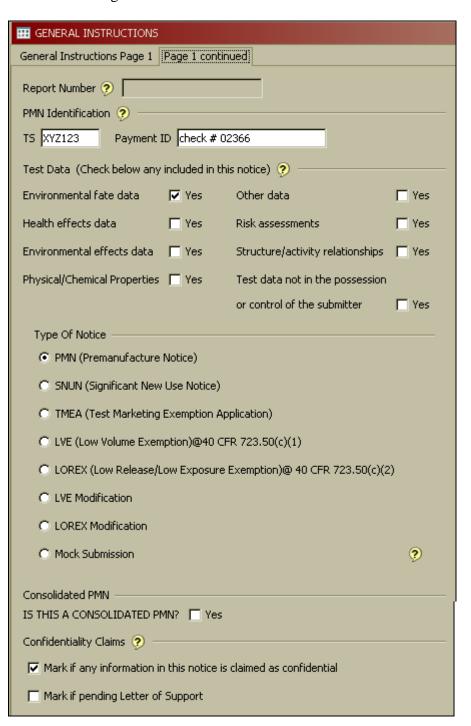
#### Part III -- LIST OF ATTACHMENTS

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.

## PMN Form - Page 1 continued



## ★ CERTIFICATION

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 [Reset ]

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:

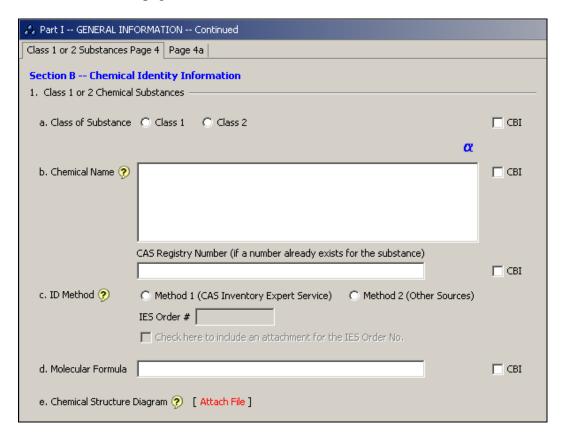
- The manufacturer submitting this notice intends to manufacture or import the new chemical substance for commercial purposes, other than in small quantities solely for research and development, under the terms of 40 CFR 723.50.
- The manufacturer is familiar with the terms of this section and will comply 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.

🤶 Part I GENERAL INFORMATION							
Section A Submitter	Section A Submitter Identification						
1a. Person Submitting Notice (i	in U.S.) [ Copy From Profile ]						
Ë	rst Name Last Name						
Name of authorized official Position	Company						
Mailing Address	Company						
(number and street)	Shaha Tanasa da						
City _	State ZIP Code						
Email							
1b. Agent (if applicable) [ Cop	ry From Profile ] CBI This is the state of t						
Name of authorized official	Servanie East Name						
Position	Company						
Mailing Address (number and street)							
City	State ▼ ZIP Code						
Email	Phone Number						
if you are submitting this n	notice as part of a joint submission, mark this box						
2. Technical Contact (in U.S.)	Copy From Profile 1						
	rst Name Last Name						
Name of authorized official							
Position	Company						
Mailing Address (number and street)							
City	State ZIP Code						
Email	Phone Number						
3. Prenotice Communication Nu	umber 🤈 📗 NONE 🗆 CBI						
4. Previously Submitted Exemp	otion No. 🧿 🔲 NONE 🗆 CBI						
5. Bona fide intent Notice Num	ber ? NONE CBI						
6. Type of Notice	1.						

## PMN Form - Header page for ID pages (PMN pages 4, 5 and 6)

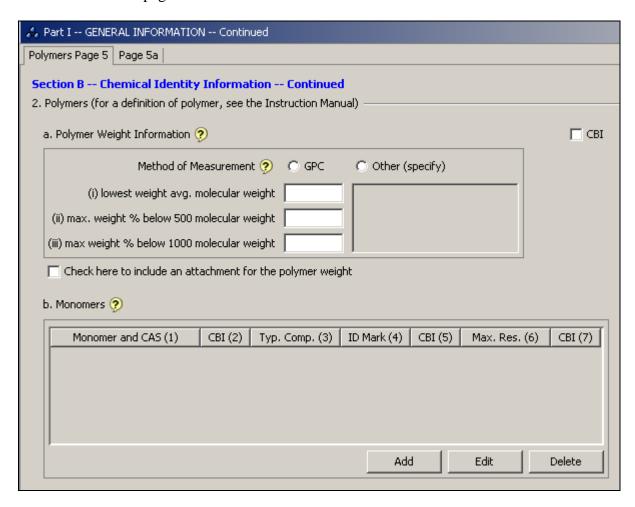
∴ Chemical Header Page
Chemical Type -
Complete either item 1 (Class 1 or 2 substances, PMN Page 4) and/or 2 (Polymers, PMN Page 5) as appropriate. Indicate which section you intend to complete below.
▼ 1. Class 1 or 2 Substance
▼ 2. Polymer
☐ If another person will submit chemical identity information for you (for either item 1 or 2), mark the box at the left

## PMN Form - PMN page 4

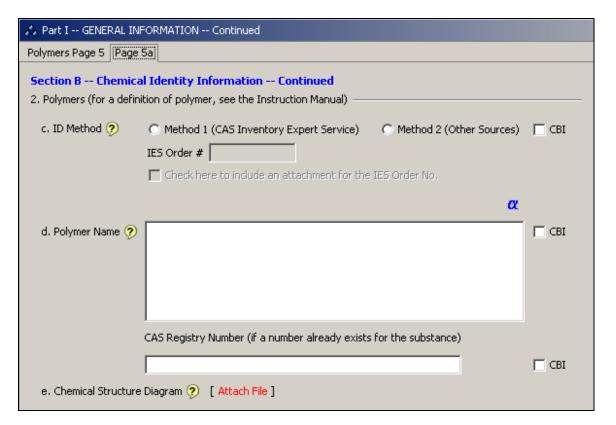


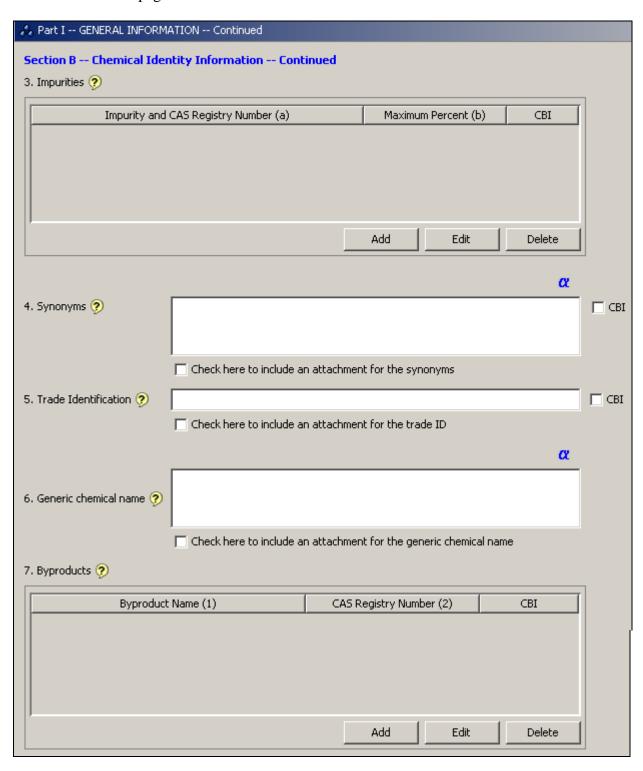
# PMN Form - PMN page 4a

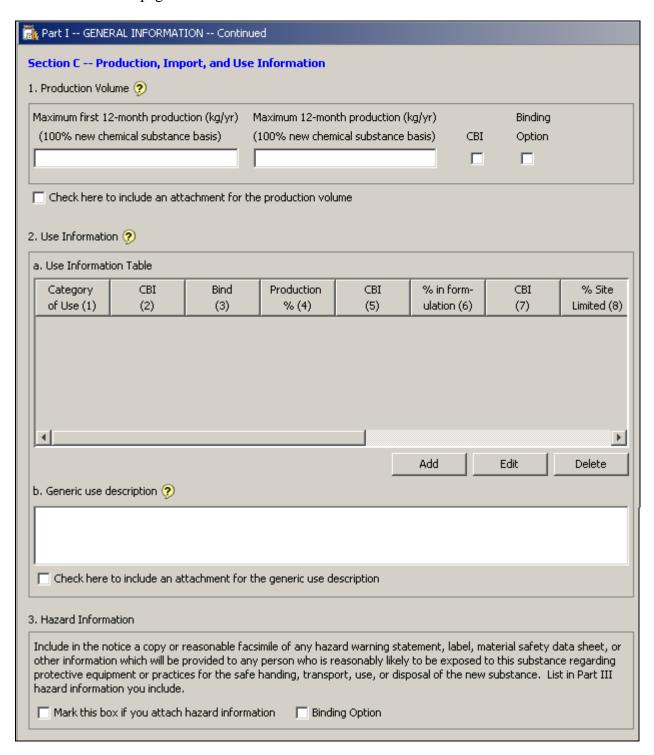
🚜 Part I GENERAL INFORMATION Continued						
Class 1 or 2 Substances Page 4 Page 4a						
Class 2 Substance Details ————————————————————————————————————						
Fill in below for a class 2 substance. (1) List the immediate precursor substances with their respective CAS Registry  Numbers. (2) Describe the nature of the reaction or process. (3) Indicate the range of composition and the typical composition (where appropriate). To claim information as confidential, bracket the specific information that you claim as confidential (e.g. {cbi text})						
e.(1) Precursor Substances						
Check here to include an attachment for the precursor substances						
e.(2) Nature of Reaction						
Check here to include an attachment for the nature of reaction						
e.(3) Range of Composition						
Check here to include an attachment for the range of composition						



PMN Form - PMN page 5a

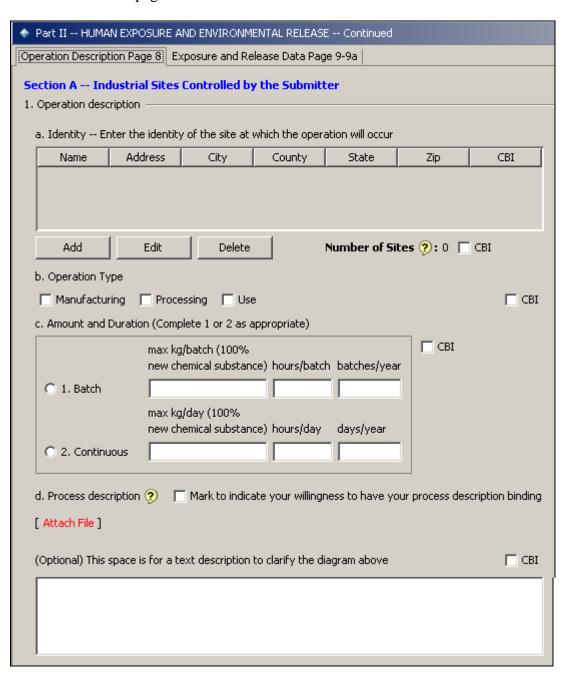




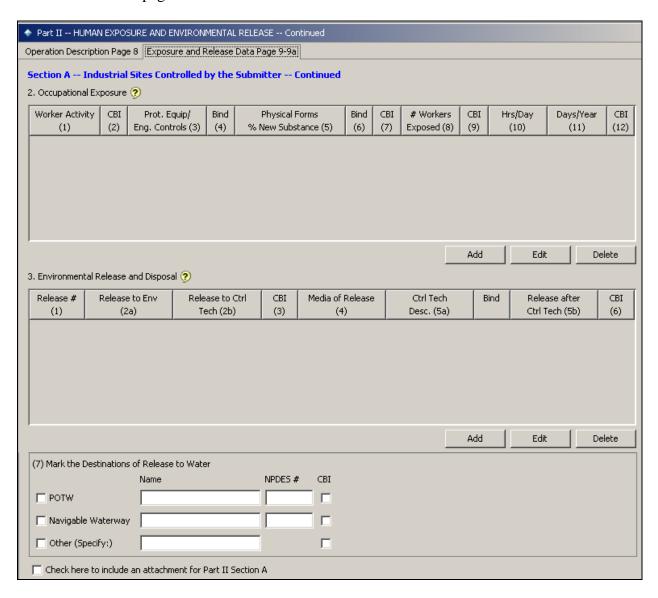


## PMN Form - Header page for exposures/releases (PMN pages 8, 9 and 10)

# 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.



## PMN Form - PMN page 9

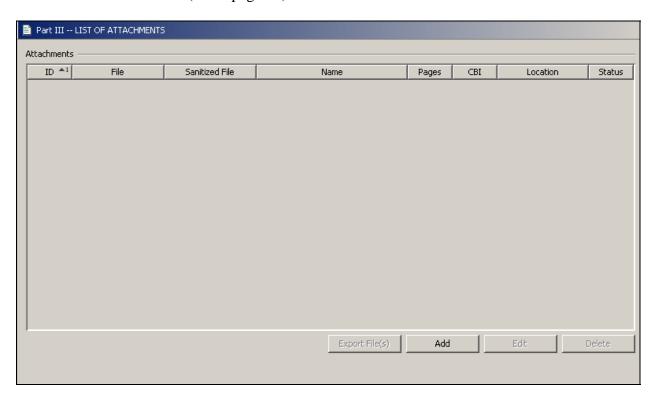


Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Continued							
Section B Industrial Sites Controlled by Others							
1(a). Operation Description 🤣 ———————————————————————————————————							
# of Sites O CBI							
Site Locations							
Operation Description [ Attach File ]							
1(b). (Optional) This space is for a text description to clarify the diagram above							
2. Worker Exposure / Environmental Release 🕜 ———————————————————————————————————							
Letter of Activity (1)         # Exposed (2)         CBI (3)         Hrs/Day (4b)         Days/Year (5)         CBI (5)         Prot. Equip./ PhysForm/% (6)							
4							
Add Edit Delete							
(14) Byproducts							
Check here to include an attachment for Part II Section B							

# PMN Form - Optional Pollution Prevention (PMN page 11)

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 in the camount or toxicity of rhemical wastes by technological modification, process and procedure modification procedure modification and procedure modification and procedure modification, process and procedure modification procedure modification procedure modification and procedure modification procedure procedure. Procedure in the process and procedure procedure procedure procedure modification, procedure and procedure procedure.  Describe the expected net benefits, such as (1) an overall reduction in risk to human health or the environment; (4) a reduction in the openion procedure modification, procedure procedure procedure procedure procedure procedure proced	👶 Optional Pollution Prevention Information
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 wherical 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 waster 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 or other means; (4) a reduction in potential toxicity or human examples. All productions are production in the generation of wasterna	C Optional Politicion Prevention Information
with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source 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 preventions, 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 may be a substitute for an existing substance that poses a greater overall risk to human health or the environment.	To claim information as confidential, place the specific information that you claim as confidential between braces (e.g. {cbi text})
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.	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,
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	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
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# PMN Form - Attachments (PMN page 12)



## PMN Form - Properties Worksheet (PMN page 13)

#### K Chemical Properties Worksheet To assist EPA's review of physical and chemical properties data, please complete the following worksheet for data you provide and include it in the notice. Identify the property measured, the page of the notice on which the property appears, the value of the property, the units in which the property is measured (as necessary), and whether or not the property is claimed as confidential. If the attachments are electronic, give the attachment file name (found on page 12) at (b). The physical state of the neat substance should be provided. These measured properties should be for the neat (100% pure) chemical substance. Properties that are measured for mixtures or formulations should be so noted (% PMN substance in \_\_\_). You are not required to submit this worksheet; however, EPA strongly recommends that you do so, as it will simplify review and ensure that confidential information is properly protected. You should submit this worksheet as a supplement to your submission of test data. This worksheet is not a substitute for submission of test data. Mark if Measured or Flag Property (a) Provided Attachment (b) Value (c) Estimate CBI (d) $\Gamma$ $\Gamma$ Physical state of neat substance $\nabla$ °C Г $\overline{\mathbf{v}}$ Г @ Temperature Torr Density/relative density Г v $\Gamma$ g/cm3 □ Solubility @ Temperature Solvent $\Gamma$ g/L $\overline{\phantom{a}}$ Solubility in Water Г Г @ Temperature °C Г $\sqcap$ Melting temperature w °C Boiling/sublimation temperature $\Gamma$ $\overline{v}$ $\Gamma$ @ [ torr pressure ☐ Spectra v $\Gamma$ Г Dissociation constant $\forall$ Particle size distribution $\Gamma$ $\Gamma$ Г Octanol/water partition coefficient $\Gamma$ Henry's Law constant $\overline{\mathbf{v}}$ $\Box$ Г Volitalization from water $\nabla$ Volitalization from soil $\Box$ $\Gamma$ ☐ PH @ concentration [ $\Gamma$ Г ☐ Flammability $\Gamma$ Г Explodability $\Gamma$ $\Gamma$ Г Г Adsorption/coefficient w Other - Specify Mark if Provided Attachment (b) Property (a) Value (c) M or E CBI Edit Add Delete

# PMN Form - Cover letter (optional)

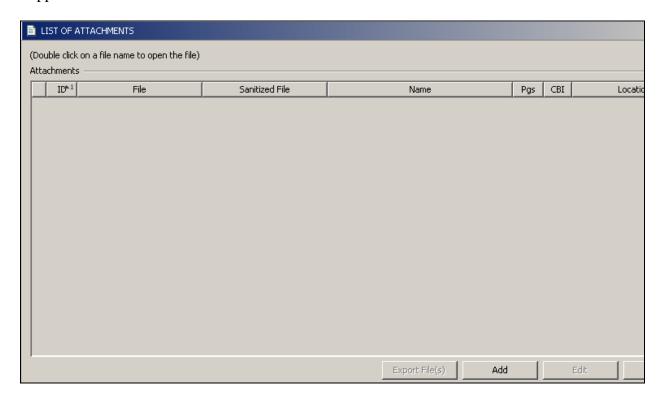
Cover Letter							
If you would like to include a cover letter, write it here.							

# **Screen Shots of the Support Form**

Support form – Main page

Support Document							
Report Number ?							
I. Original Notice Submission Identification							
Report Number	TS Number	Case Number 🦻					
Original Submission Date		V					
Original Submission Media Type							
II. Original Notice Submitter Ide	ntification —	СВІ					
[ Profile ]	First Name	Last Name					
Authorized Official Name							
Position		Company					
Mailing Address							
City		State Zip Code					
Email		Telephone					
III. Current Notice Submitter Id	entification ————————————————————————————————————	CBI					
[ Profile ]	First Name	Last Name					
Authorized Official Name							
Position		Company					
Mailing Address							
City		State Zip Code					
Province		Country					
Email		Telephone					
IV. Type of Support (Check one	) ————						
C Letter of Support	Withdrawal Request						
C Other Correspondence	TEST DATA (Health/Eco/Fate)						
C Amendment (Changes mad	e to PMN pages 1-13, MSDS or Physical/	Chemical properties)					
Check if requested by EPA	Contractor						
V. Text / Description of Change	e	CBI					
v. rext / Description or Change	•						

# $Support\ form-Attachments\ section$



# **Screen Shots of the NOC Form**

NOC Form – Main page

iii Notice of Commenc	ement				
Notice of Commencem	ent   CBI Substantiation   Optional Cover Letter				
Report Number 🤊 [					
Part I - SUBMIT	TER IDENTIFICATION				
Manufacturer/ Importer (in U.S.) [ Profile ]  Technical Contact	Name of Authorized Official First Name Last Name  Company Name  First Name Last Name	Mailing Address (number and street)  City State Zip  Telephone Number			
(in U.S.)					
Part II - Preman	nufacture Notice (PMN) 'P' Case Numbe	7			
Part III - Check	the appropriate box and provide the	exact date of manufacture or importation			
C First Commercial I	Manufacture**	C First Commercial Importation***			
Date	▽	Date	V		
***For importees, the	ment is the date of completion of non-exempt me e date of commencement is the date that the ne acturing Plant Site(s) or Importing Site		ві		
Part V - Specific	c Chemical Identity				
			BI		
Part VI – Generi	ic Chemical Name				
Part VII – Substance Identity Confidentiality Status					
submit the req O I previously cla	nue to claim the substance identity confidential a juired substantiation in accordance with 40 CFR i simed the substance identity as confidential and the substance identity as confidential in my origin	hereby relinquish that claim.	)		

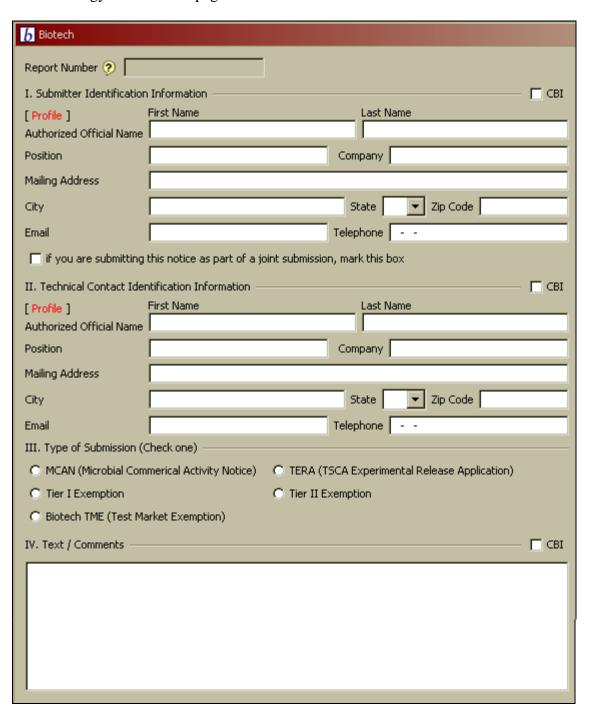
## NOC Form – CBI Substantiation form

Motice of Commencement					
Notice of Commencement CBI Substantiation Optional Cover Letter					
Substantiate confidentiality claims if you mark the substance identity (Part V) as CBI by answering the following questions:  (A) What harmful effects to your competitive position, if any, do you think would result if EPA publishes on the Inventory the identity of the chemical substance? How could a competitor use such information given the fact that the identity of the substance otherwise would appear on the Inventory of chemical substances with no link between the substance and your company or industry? How substantial would the harmful effects of disclosure be? What is the casual relationship between the disclosure and the harmful effects?  (B) For what period of time should confidential treatment be given? Until a specific date, the occurrence of a specific event, or permanently? Why?  (C) Has the chemical substance been patented? If so, have you granted licenses to others with respect to the patent as it applies to the chemical substance? If the chemical substance has been patented and therefore disclosed through the patent, why should it be treated as confidential for purposes of the Inventory?  (D) Has the identity of the chemical substance been kept confidential to the extent that your competitors do not know it is being manufactured on imported for a commercial purpose by anyone?  (E) Is the fact that someone is manufacturing or importing this chemical substance for commercial purposes available to the public, e.g., in technical journals or other publications; in libraries; or in State, local, or Federal agency public files?  (F) What measures have you taken to prevent undesired disclosure of the fact that you are manufacturing or importing this substance for a commercial purpose been disclosed to others? What precautions have you taken to guard against discovery of its identity?  (H) In what form does this particular chemical substance leave the site of manufacture, e.g., as part of a product; in an effluent or emission stream? If so, what measures have you taken to guard against discovery of its iden					

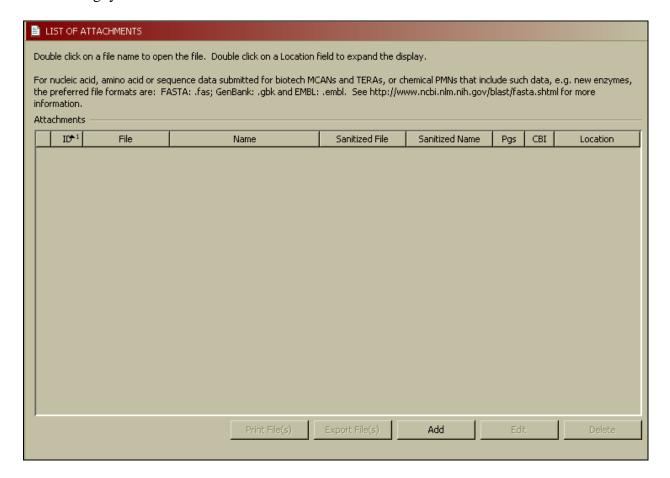
# NOC Form – Optional Cover letter form

Motice of Commencement						
Notice of Commencement   CBI Substantiation   Optional Cover Letter:						
Use the space below to include an optional cover letter						

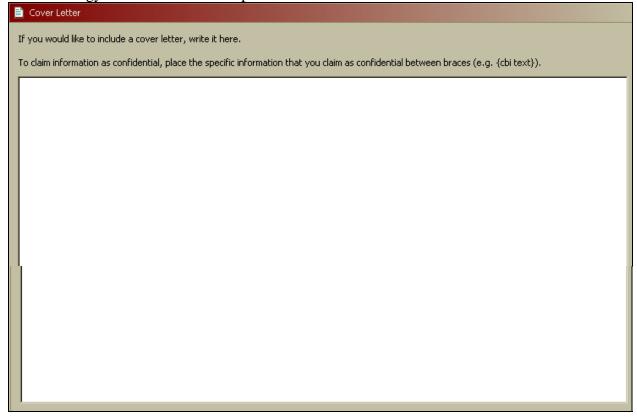
## Biotechnology form - Main page



## Biotechnolgoy form - Attachments section



Biotechnology form Cover letter – optional



## **Cover Letter**

Cover letter information goes here.



U.S. ENVIRONMENTAL PROTECTION AGENCY					AGENCY USE ONLY		
PREMANUFA					Date o	of receipt:	
EPA FOR NEW CHEMICA				ANCES			
			If sending by US Mail: of Pollution Prevention and Toxics ent Control Office (7407M)		,	Submiss	ion Report Number
send this US EPA, 1201 WASHINGTON	Constitution Ave NW	US EPA, 1	ı, 1200 Pennsylvania Ave NW NGTON, D.C. 20460				•
Total Number of Pages		Fee Payn	nent ID N	lumber			TS Number
49							
V	and the state of t	4446-4141-		INSTRUCTIONS	h M-		ation at a life constant of the constant of the
<ul> <li>Before you complete this form (TSCA) Information Service b</li> <li>If a user fee has been remitted</li> </ul>	, you should read the "Instructions y calling 202-554-1404, or faxing 2	Manual for F 202-554-5603 ndicate in the	Premanufact 3). e boxes abo	ture Notification" (the Instruve the TS-user fee identific	uctions Mar	nual is available f ber you have ger	stimates if you do not have actual data. from the Toxic Substances Control Act nerated. Remember, your user fee ID number
Part I – GENERAL INFOR	RMATION		TEST D	ATA AND OTHER [	DATA		
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. For all Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data: if you claimed any				You are required to submit all test data in your possession or control and to provide a description of all other data known to or reasonably ascertainable by you, if these data are related to the health and environmental effects on the manufacture, processing, distribution in commerce, use, or disposal of the new chemical substance. Standard literature citations may be submitted for data in the open scientific literature. Complete test data (written in English), not summaries of data, must be submitted if they do not appear in the open literature. You should clearly identify whether test data is on the substance or on an analog. Also, the chemical composition of the tested material should be characterized. Following are examples of test data and other data. Data should be submitted according to the requirements of §720.50 of the Premanufacture Notification Rule (40 CFR Part 720).			
Part II – HUMAN EXPOSU RELEASE	JRE AND ENVIRONMEN	ITAL	Test Data (Check Below any included in this notice)				
If there are several manufactu be described in Part II, section the sections as needed.				Environmental fate d  Health effects data	lata		Other Data  Risk Assessments
				ricallir chects data			
Part III – LIST OF ATTAC For paper submissions, attach	-	not	Environmental effects data Structure/activity relationships				
enough space to answer a que	estion fully. Label each contin	nuation	Physical/Chemical Properties (A physical and chemical properties worksheet is				
sheet with the corresponding sattachments, any test data or		t these	located on the last page of this form.)				
information included in the not				Test data not in the p	possessio	on or control of	the submitter
OPTIONAL INFORMATION You may include any information		sider in		TYP	PE OF NO	TICE (Check	Only One)
evaluating the new substance been provided for you to describe	. On page 11 of this form, sparibe pollution prevention and	ace has	X PMN (Premanufacture Notice)				
recycling information you may "Binding" boxes are included t indicate your willingness to be	hroughout this form for you to	)	SNUN (Significant New Use Notice)				
make in this section, such as a equipment The intention is	use, production volume, prote	ective	TMEA (Test Marketing Exemption Application)				
accompany the development of Use Rules. Checking a "bindir	of consent orders or Significating" box in a PMN does not by	nt New itself		LVE (Low Volume E	xemption	) @ 40 CFR 72	23.50(c)(1)
prohibit the submitter from late (except chemical identity) reports case of exemption applications:	orted in the form; however, in	the	LOREX (Low Release/Low Exposure Exemption) @ 40 CFR 723.50(c)(2)				
certain information provided in				LVE Modification			
submitter when the Agency ap especially if the production vol			LOREX Modification				
LVE.	MO			Mock Submission			
You may claim any information	I. To		Mark (X) if pending	g Letter	of Support		
assert a claim on the form, ma	ext to		IS THIS A CONSOLI	IDATED E	OMN (Y/NI)?		
the information that you claim an attachment, circle or brack confidential. If you claim inform	IS				` ,	ommunication # required, enter # on	
you must also provide a sanitiz	zed version of the notice, (inc	luding		p. 3).			
attachments). For additional in as confidential, read the Instru		ation		Mark (X) if any inform	mation in	this notice is cl	laimed as confidential.



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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:

- 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.

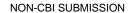
If you are submitting a PMN. Intermediate PMN. Consolidated PMN, or SNUN, check the following user fee

#### **Additional Certification Statements:**

certification statement that applies:									
	The Company named in Part I, Section A has remitted the fee of \$2500 specified	cified 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 accordance with 40 CFR 700.45(b).	40 CFR 70	00.43 and has remitted a fee of	\$100 in					
If you are submitting a <b>Low Volume Exemption (LVE)</b> application in accordance with 40 CFR 723.50(c)(1) or a <b>Low Release and Low Exposure Exemption (LoRex)</b> 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 other than in small quantities solely for research and development, under the			purposes,					
	The manufacturer is familiar with the terms of this section and will comply w	rith those to	erms; and						
	The new chemical substance for which the notice is submitted meets all ap	plicable 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								
The accuracy of the statements you make in this notice should reflect your best prediction of the anticipated facts regarding the chemical substance described herein. Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 USC 1001.									
Signature and Authorized O Signature Re	ed Official (Original Date								



Part I GENERAL INFORMATION Section A – SUBMITTER IDENTIFICATION													
	Mark (X) the "Confidential" box next to any subsection you claim as confidential										_		
1a.	Person Subm	ittin		e (in U.	.S.)			(14)			Confidential		
Name	of Authorized Official		(first)					(last)			_		
Positio	on												
Comp	any												
Mailin	g Address (number & stre	eet)											
City				State Postal Code									
email													
b.	Agent (if App	icab									Confidential		
Name	of Authorized Official		(first)					(last)					
Positio	on												
Comp	any										]		
Mailin	g Address (number & stre	eet)									] [		
City					State			Postal Code			1		
e-mail							lephon	e rea code)					
C.	Joint Submitt	er (i	f applica	able)		(1110	ciuue a	rea code)			Confidential		
	are submitting this notice			•	ssion, mark (	(X)							
Name	of Authorized Official		(first)					(last)					
Positio	on												
Comp	any												
Mailin	g Address (number & stre	eet)											
City					State			Postal Code					
e-mail	l				"		elepho	ne area code)					
2.	Technical Co	ntac	t (in U.S	5.)				· ·			Confidential		
	of Authorized Official		(first)	-,				(last)					
Positio	on												
Comp	anv										-		
	g Address (number & stre	not)									+		
	g Address (number & site	<del>(</del> ( )			1 1		1	T			-		
City					State	T-1		Postal Code			_		
e-mail							lephon clude a	rea code)					
•	If you have had a prend					9			•	Mark (X) if none	Confidential		
3.	this notice and EPA ass enter the number.												
	If you previously submit chemical substance cov		n exemption application for the by this notice, enter the							Confidential			
4.	exemption number assi submitted a PMN for th	gned	by EPA. I	f you pre	viously								
	assigned by EPA (i.e. w									Mark (X) if none	Confidential		
5.	If you have submitted a manufacture or import f	or the	chemical	substan	ce covered				-		Confidential		
	by this notice, enter the	notic	e number	assigned									
6.			1		•	of N	lotice	- Mark (X)					
1.	Manufacture Only	L	_	2. Ir	mport Only				3.	Both			
, ,	Binding Option		_		inding Optio	n							





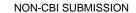
Part I – GEN	IERAL INFORM	ATION Contir	nued				
Section B – CHEMICAL IDENTITY INFORMATION: You must provide a currently correct Chemical Abstracts (CA) name of the substal based on current CA index nomenclature rules and conventions.							
Mark (X) the "Confidential" box next to any item you claim as confidential							
Complete either item 1 (Class 1 or 2 substances) or 2 (Po	olymers) as appropri	ate. Complete all oth	ner items.				
If another person will submit chemical identity information the name, company, and address of that person in a continuous company.		em 1 or 2), mark (X)	the box at the right. Identify				
Class 1 or 2 chemical substances (for definitions of cl 2 substances, see the Instructions Manual)	lass 1 and class	Class 1	Class 2	СВІ			
a. Class of substance - Mark (X)							
b. Chemical name (Currently correct Chemical Abstracts substances. For Class 1 substances a CA Index Nam Preferred Name must be provided, which ever is appropriate to the control of the	e must be provided.	For Class 2 substan	ices either a CA Index Name or CA				
CAS Registry Number (if a number already exists for	the substance)						
c. Please identify which method you used to develop or		chomical identity info	ermation reported in this notice: (check	ono)			
Method 1 (CAS Inventory Expert Service - a copy of Identification report obtained from the CAS Inventory Services must be submitted as an attachment to this	the Expert	IES Order Number	Method 2 (Other Source)	one).			
Enter Attachment filename for Part I, Section B, 1. c.							
d. Molecular formula							
e. For a class 1 substance, provide a complete and corr	ect chemical structu	re diagram. For a cla	ss 2 substance, provide a correct				
representative or partial chemical structure diagram, a	as complete as can t	e known, ii one can	be reasonably ascertained.				
Enter Attachment filename for Part I. Section B. 1. e.							



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





0 (; D 0);		t I GENERAL IN			Con	tinued				
Section B CHEMICAL				ed					Confide	ntial
Polymers (For a definition of polymer, see the Instructions Manual.)      Indicate the number-average weight of the lowest molecular weight composition of the polymer you intend indicate maximum weight percent of low molecular weight species (not including residual moneyers react							manufactu	re.	Connide	IIIIai
Indicate maximum weight percent of low molecular weight species (not including residual monomers, reactants, or solvents below 500 and below 1,000 absolute molecular weight of that composition.								ents)		
	he basis for y	our es	timates:							
GPC	Other	(Specify Below)								
Specify Other:										
(i) lowest number average molecular weight: (ii) maximum weight % below 500 molecular weight:						) maximum w	eight % be weight		00 molecu	ılar
Enter Attachment filename		•								
<ul> <li>b. You must make separate confidentiality claims for monomer or other reactant identity, composition information, and residual information. Ma(X) the "Confidential" box next to any item you claim as confidential</li> <li>(1) - Provide the specific chemical name and CAS Registry Number (if a number exists) of each monomer or other reactant used in the manufacture of the polymer.</li> <li>(2) - Mark (X) this column if entry in column (1) is confidential.</li> <li>(3) - Indicate the typical weight percent of each monomer or other reactant in the polymer.</li> <li>(4) - Choose "yes" from drop down menu if you want a monomer or other reactant used at two weight percent or less to be listed as part of the polymer description on the TSCA Chemical Substance Inventory.</li> <li>(5) - Mark (X) this column if entries in columns (3) and (4) are confidential.</li> <li>(6) - Indicate the maximum weight percent of each monomer or other reactant that may be present as a residual in the polymer as manufactured for commercial purposes.</li> <li>(7) - Mark (X) this column if entry in column (6) is confidential.</li> </ul>										
Monomer of	r other re	actant specific chemical na (1)	ame		CBI ( <b>2</b> )	Typical composition (3)	Include in identity (4)	CBI ( <b>5</b> )	Max residual ( <b>6</b> )	CBI ( <b>7</b> )
CAS Registry Num	nber ( <b>1</b> )									
CAS Registry Num	iber (1)									
CAS Registry Num	nber ( <b>1</b> )									
CAS Registry Num	nber ( <b>1</b> )									
								_		
CAS Registry Num	nber ( <b>1</b> )								<u> </u>	
Mark (X) this box if the data con	tinues on	the next page.								



PP5A PMN Page 5a

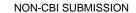
NON-CBI SUBMISSION

c. Please identify which method you used to develop or obtain (check one).	the specified o	hemical identity information reported in this notice	СВІ
Method 1 (CAS Inventory Expert Service			
- a copy of the identification report obtained from CAS Inventory Expert Service must be	IES Order Number	Method 2 (other source)	
submitted as an attachment to this notice)		(other source) —	
Enter Attachment filename for Part I, Section B, 2. c.			
<ul> <li>d. The currently correct Chemical Abstracts (CA) name for the polymers.</li> </ul>	polymer that i	s consistent with TSCA Inventory listings for similar	
polymers.			
CAS Registry Number (if a number already exists for the s	substance)		
Provide a correct representative or partial chemical structul ascertained.	re diagram, as	complete as can be known, if one can be reasonably	
abbortained.			
Enter Attachment filename for Part I, Section B, 2. e.			



Part I GENERAL INFORMA	TION Continue	d		
Section B CHEMICAL IDENTITY INFORMATION Continued				
<ul> <li>Impurities         <ul> <li>(a) - Identify each impurity that may be reasonably anticipated to be present purpose. Provide the CAS Registry Number if available. If there are uniced to be present purpose.</li> <li>(b) - Estimate the maximum weight % of each impurity. If there are unidentification.</li> </ul> </li> </ul>	dentified impurities, enter "	unidentified."		cial
Impurity (a)	CAS	Registry lumber (a)	Maximum Percent % (b)	Confi- dential
			( )	
Mark (X) this box if the data continues on the next page.				
Enter Attachment filename for Part I, Section B, 3.				
4. Synonyms - Enter any chemical synonyms for the new chemical identified in subs				
Enter Attachment filename for Part I, Section B, 4.				
5. Trade identification - List trade names for the new chemical substance identified i	n subsection 1 or 2.			
Enter Attachment filename for Part I, Section B, 5.				
<ol> <li>Generic chemical name - If you claim chemical identify as confidential, you must specific chemical identity of the new chemical substance Substance Inventory, 1985 Edition, Appendix B for guida</li> </ol>	to the maximum extent po	ssible. Refer t		
Enter Attachment filename for Part I, Section B, 6.				
7. Byproducts - Describe any byproducts resulting from the manufacture, processing CAS Registry Number if available.	g, use, or disposal of the no	ew chemical s	ubstance. Prov	ide the
Byproduct (1)		_	stry Number (2)	Confi- dential

Mark (X) this box if the data continues on the next page.





PMIN2009P7			Page										
Part I GENERAL INFORMATION Continued													
Section C PRODUCTION, IMPORT, AND USE INFORMATION:													
The information on this page refers to consolidated	chemic	al numbe	r(s):	1	2		3	4		5	6		
Mark (X) the "Con  1. Production volume Estimate the maximum prod volume for any consecutive 12-month period during For a Low Volume Exemption application, if you ch volume and mark (x) in the binding box. If granted,	uction v the first oose to	olume dur st three yea have your	ring the first ars of process notice re-	st 12 moduction.	onths of pro Estimates	oductior should	n. Also e be on 1	estimate 00% ne	w chem	ical sub	ostance	basis.	
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)	<i>you</i> a.e	Maximum	12-montl	h produc	ction (kg/yr ance basis		С	onfident	ial		nding Option Mark (X)		
Enter Attachment filename for Part I, Section C, 1.													
2. Use Information You must make separate confide to each category, the formulation of the new substate confidential.  a. (1)Describe each intended category of use (2)Mark (X) this column if entry column (1) if (3)Indicate your willingness to have the infore (4)Estimate the percent of total production fore (5)Mark (X) this column if entry in column (4) (6)Estimate the percent of the new substance commercial purposes at sites under your (7)Mark (X) this column if entry in column (6)Indicate % of product volume expected fore willingness to have the use type provided (9)Mark (X) this column if entry(ies) in column	of the nose confidence, are the nose confidence as for control (s) is confort the list in (8) It	ew chemic lential busi provided i rst three your fidential busy rmulated in associate fidential busted "use": binding.	al substar ness infor n column ears devoi n mixtures d with ead usiness informations	tion. Ma nce by fu mation ( (1) bind ted to ea formatio c, suspel ch categ formatio lark mor	rk (X) the ' unction and CBI). ing. ach catego n (CBI). nsions, em ory of use. n (CBI). te than one	Confidence of applications of using the control of	ential" B ation. e. , solutio	ox next	to any i	tem you	u claim	as	
Category of use (1) (by function and application i.e. a dispersive dye for	CBI	Binding Option	Prod uction	CBI	% in Form-	CBI	% of substance expected per use (8)						
finishing polyester fibers)	(2)	Mark (X) (3)	% ( <b>4</b> )	(5)	ulation ( <b>6</b> )	(7)	Site- limited	Con- sumer*	Industrial	Com- mercial	Binding Option	(9)	
* If you have identified a "consumer" use, please prov consumer products. In addition include estimates of the the chemical reactions by which this substance loses	ne conc	entration o	of the new	chemica	al substand								
Mark (X) this box if the data continues on the next page.		, ,											
b. Generic use If you claim any category description Read the Instruction Man						ntial, er	nter a ge	eneric d	escriptic	on of tha	at categ	ory.	
Enter Attachment filename for Part I, Section	C, 2. b.								СВ	31			
3. Hazard Information Include in the notice a copy o data sheet, or other information which will be provided regarding protective equipment or practices for the sa hazard information you include.  Mark (X) this box if you attach hazard information the same and the same are same as a same and the same are same as a same are same as	d to any ife hand	person wl	no is reaso	onably li	kely to be	expose	d to this	substa	nce		Binding Mark	•	



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Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE																
Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER  Mark (X) the "Confidential" be any item you claim as confidential."											ıl" box nfider	nex	t to			
The information on pages 8 and	d 8a refer to	cons	olidated che	emical number(s	s):	1		2	3			4		5		6
Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at indust 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  1. Operation description										ng	sites onfi-					
a. Identity Enter the id	entity of the	site	at which the	e operation will	occı	ır.										ential
Name																
Site address (number and street)															[	
City					Со	unty										
State					ZIF	code										
If the same operation will occ sites on a continuation sheet, operations, include all the info	and if any o	of the	sites have	significantly dif	ferer	nt product	tion	rates or	onal						[	
Mark (X) this box if the	data continue	es on	the next pag	e.												
b. Type Mark (X)	ufacturing			Processing				Use	е						[	
c. Amount and Duration	Complete	1 or	2 as appro	priate												onfi- ential
1. Batch		Maximum kg/batch (100% new chemical substance)			Hours/batch				Batches/year			ar	[			
		Marian and Inviden														
2. Continuous		(100	Maximum % new chem	n kg/day nical substance)	Hours/day						Days/year					
d. Process description						rk (X) to in re your pro										
(1) Diagram the major upails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note freq (3) Identify by number the releasing to two medicals.	n, rail car, tan the approxim ocks (includir uency if not une points of re	k truck ate wang rea used delease	k, etc.). eight (by kg/o ctants, solve laily or per ba e, including s	day or kg/batch o ents, catalysts, etc atch.). mall or intermitte	n a 1 c.), ar	00% new ond of all processes, to t	chen oduc	nical subs ts, recycle	tance e stre	bas ams	sis), , and	and en	try po	oint of clude	all s clea	tarting ning



PMN Page 8a

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Diagram of the major unit operation steps.		Confidential				
Diagram of the major unit operation steps.						
			_			
Enter Attachment filename for Part II, Section A, 1. d.						

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Part II HUMAN EXPOSURE AND ENVIRONM	MENTAL	RELEAS	SE Cor	ntinued			
Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMIT	TER (	Continue	d				
The information on pages 9 and 9a refer to consolidated chemical number(s):	1	2	3	4	5	6	

- 2. Occupational Exposure -- You must make separate confidentiality claims for the description of worker activity, physical form of the new chemical substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as confidential.
  - (1) -- Describe the activities (i.e. bag dumping, tote filling, unloading drums, sampling, cleaning, etc.) in which workers may be exposed to the substance.
  - (2) -- Mark (X) this column if entry in column (1) is confidential business information (CBI).
  - (3) -- Describe any protective equipment and engineering controls used to protect workers.

  - (4) and (6) -- Indicate your willingness to have the information provided in column (3) or (5) binding.
    (5) -- Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new chemical substance (if part of a mixture) at the time of exposure.
  - (7) -- Mark (X) this column if entries in columns (3) and (5) are confidential business information (CBI).
  - (8) -- Estimate the maximum number of workers involved in each activity for all sites combined.
  - (9) -- Mark (X) this column if entry in column (8) is confidential business information (CBI).

(10) and (11) Estima	ate the	e maximum duration of the activity if entries in columns (10) and (1	y for any w	orker in hours processed	per day an ss informa	d day	s per year CBI).				
Worker activity (i.e., bag dumping, filling drums)	СВІ	Protective Equipment/ Engineering Controls	Binding Option Mark (X)	Physical form(s) & % new	Binding Option Mark (X)		# of Workers Exposed	СВІ	Maximum	СВІ	
(1)	(2)	(3)	(4)	substance (5)	(6)	(7)	(8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12)
	+										
Mark (X) this box	if the	data continues on the next page			<u> </u>	1	l	1			
Enter Attachmen	t filena	ame for Part II, Section A on the I	bottom of p	age 9a.							

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- 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).
  - 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).
  - Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
  - 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	СВІ	Medium of release e.g. Stack air	Control technolog optional	y and effici ly attach eff	ency (you n iciency dat	nay wish to a)	СВІ
(1)	(2a)	(2b)	(3)	(4)	(5a)		Binding Mark (X)	(5b)	(6)
				on the next page.					
(7) Mark			of releas	ses to water.			NPDES	S#	CBI
	POTWpro name(s)	vide							
	Navigable v - provide na	waterway- ame(s)							
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PMN Page 10

NON-CBI SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONM	ENT	AL RI	ELE.	ASE -	<ul><li>Con</li></ul>	tinue	d			
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
The information on pages 10 and 10a refer to consolidated chemical number(s):  Complete section B for typical processing or use operations involving the new chemical complete his 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 addit 1(a). Operation Description To claim information in this section as confident 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 carried to 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 used).  (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).	ocessional sional siona	stance a sing or use w chen sites on acket (cerim sto ter and coximate s, solver ily or pe s of rele	at site se aconical a cone.g. { rage brief e weights are bate ase,	s you c tivities substantinuati }) the s and tra ly desc ght (by nd cata ch). includir	do not c after im nce. If the on sheet specific insport ribe eac kg/day lysts, et	he san et. inforr contair ch wor or kg/l	Importe See the ne opera nation I ners (sp ker actionatch, on all productionatch, on all productionatch	ers do n Instruct ation is that you ecify - e vity. n an 10 ducts, re	ot have tions Maperform u claim e.g. 5 g 00% nevecycle ses, to the	as allon
1(b). (Optional) This space is for a text description to clarify the diagram above.							Con	fidentia	al	
Enter Attachment filename for Part II. Section B on the bottom of page 10a								-		<u> </u>



I2009P10A 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	Durat Expo	ion of sure	СВІ	Protect	ve Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)
Release Number			Substan	ice Releas	sed	СВІ	Media of Release & Contro	l Technology		СВІ
(9)	(10	0a)		(10b)		(11)	(12)			(13)
	Mark (X) this	box if th	ne data co	ntinues or	the ne	xt page.				
<b>(14)</b> Byp		box if th	ne data co	ntinues or	the ne	xt page.			(15) CBI	



PMN Page 11

NON-CBI SUBMISSION

### 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 overall net 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.

Describe the expected net benefits, such as

- (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 toxicity, human exposure and/or environmental release; or

(5) the extent to which the new chemical substance may be a substitute for a health or the environment.	in existing substance that poses a greater overall risk to huma	ın
Information provided in this section will be taken into consideration durin and Pollution Prevention Guidance manual for guidance and examples.	g the review of this substance. See PMN Instructions Man	nual
· ·		
Enter Attachment filename for Pollution Prevention Page 11.		



009P12 **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

notice form a sanitized version of any attachment in which you claim information as confidential.

#	Attachment Name	Attachment Filename	Number of Pages	Associated PMN Section Number	СВ
01	PMN attachment	blank page.doc	30		



PMN200				PMN	Pag	e 13	3						NO	N-CB	II SUB	SMISSION	1
		PHYSIC	AL AND	CHEMICA				ES W	OF	RKSHEE	Т						
The information on	this	page refers to ch	emical r	number(s):		1		2		3	4		5		6		
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Vapor Pressure @ Temperature			°C								То	rr					
Density/relative dens	sity										g/cı	m3					
Solubility																	
@ Tempera	ture		°C								g/	L					
Solv	vent																
Solubility in Water @ Temperature	)		°C								g/	L					
Melting Temperature	)										°C	:					
Boiling / Sublimation temperature @			Torr								°C	;					
Spectra																	
Dissociation constan	ıt																
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Henry's Law constan	nt																
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Flammability																	
Explodability																	
Adsorption / Coefficie	ent																
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Other – Specify																	

# ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name
PMN attachment

Associated PMN Section Number N/A

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Report Number



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EPA person/	contracto	r											
Submitter Sig	nature												



V. TEXT / DESCRIPTION O	F CHANGES	CBI	
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001	Support attachment	blank page.doc	2		
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# ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name
Support attachment

Associated PMN Section Number N/A

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Report Number

# Cover Letter

NOC cover letter information goes here.



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PROTECTION		$\boldsymbol{\vdash}$

# **U.S. Environmental Protection Agency**

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Part I - S	SUBMITTER IDEN	ITIFICATION	Doc	ument Control #:				
	Name of Authorized Official			Mailing Add	ress (numb	per and street)		CBI*
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Importer (in U.S.)	Com	pany Name		City	State	e Zip		
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Technical		Name		Telephone Number				
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Part II -	Premanufacture	Notice (PMN) "P" Case	Number:					
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Part IV -	Manufacturing P	Plant Site(s) or Importin	g Site(s):	(Importers, provide	e street ad	Idress of destination	)	
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Part v -	Specific Chemica	al Identity: (For Consolidate identity of each			must have	a separate NOC form	with the	specific
Part VI -	Generic Chemic	al Name (if chemical identity	is claimed (	CBI*):				
Part VII	- Substance Iden	tity Confidentiality Stat	us:					
		claim the substance identity cortiation in accordance with 40 CF					Failure t	to submit
	I previously claimed t	he substance identity as confid	ential and he	ereby relinquish that	claim.			
I did not claim the substance identity as confidential in my original PMN submission.								
		notice no later than 30 calenda	ır days after	the first date of com	mercial ma	anufacture/importation	to the a	ddress
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Washington, D.C. 20460								
		ATTN: Notice of Comm	encement					
Signature	of authorized official				Date			



# **CBI** Substantiation

NOC CBI substantiation goes here.

# **Cover Letter**

Cover letter information goes here.



BIO2009P1

EPA Biotech Form										
Biotech Forn	n Report N	lumber				Ma	rk (X) if a	anythi	ng is CBI	
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IV. TEXT / 0	COMMEN	ΓS							CBI	



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# ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name
Biotech attachment

Associated PMN Section Number N/A

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