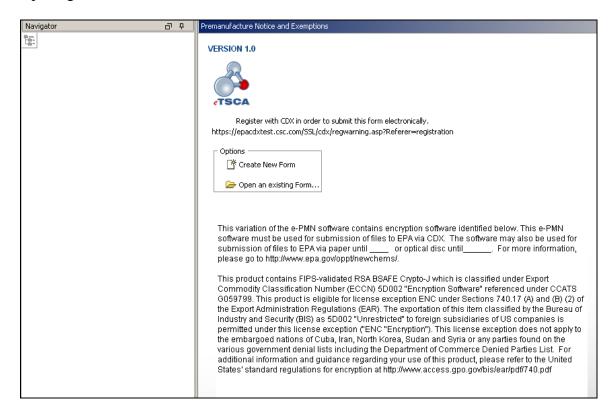
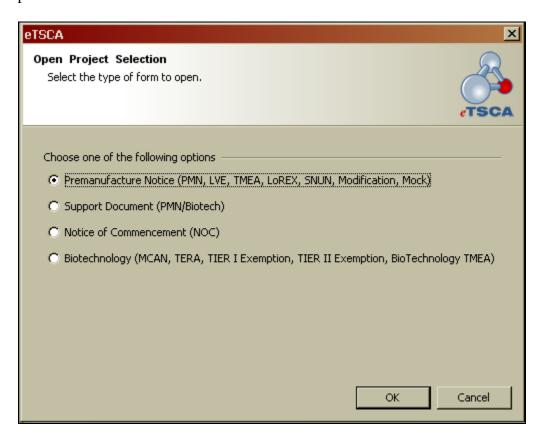
Opening Screen



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.

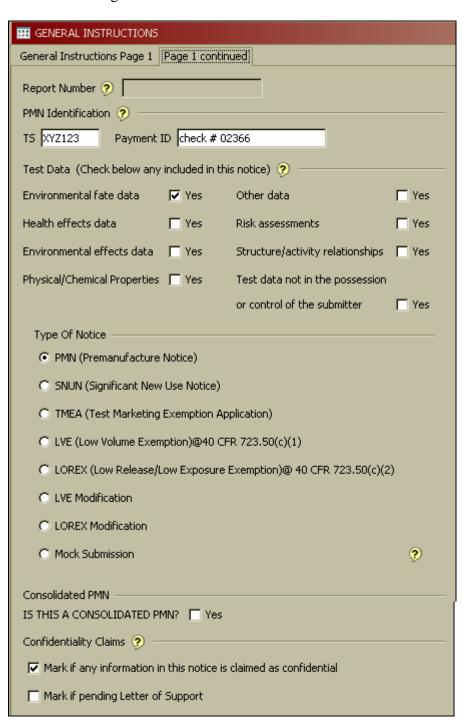
Part III -- LIST OF ATTACHMENTS

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:

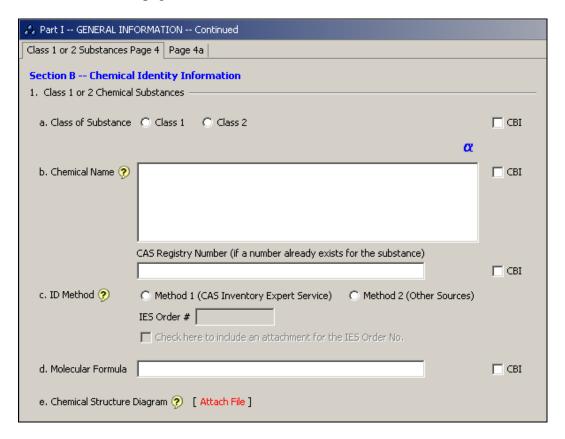
- The manufacturer submitting this notice intends to manufacture or import the new chemical substance for commercial purposes, other than in small quantities solely for research and development, under the terms of 40 CFR 723.50.
- The manufacturer is familiar with the terms of this section and will comply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

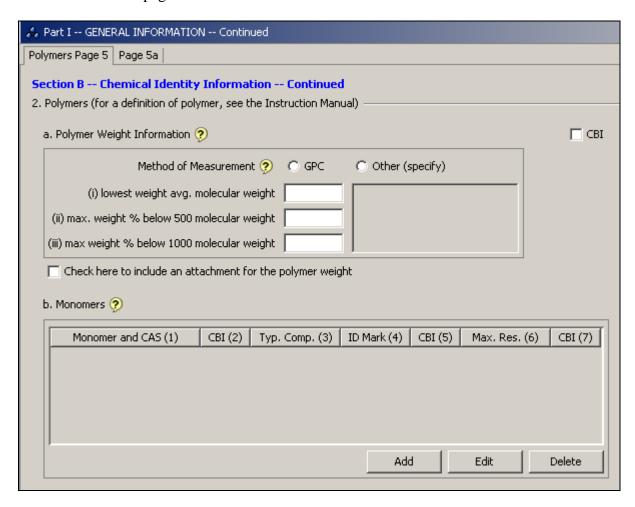
∴ Chemical Header Page
Chemical Type -
Complete either item 1 (Class 1 or 2 substances, PMN Page 4) and/or 2 (Polymers, PMN Page 5) as appropriate. Indicate which section you intend to complete below.
▼ 1. Class 1 or 2 Substance
▼ 2. Polymer
☐ If another person will submit chemical identity information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

PMN Form - PMN page 4

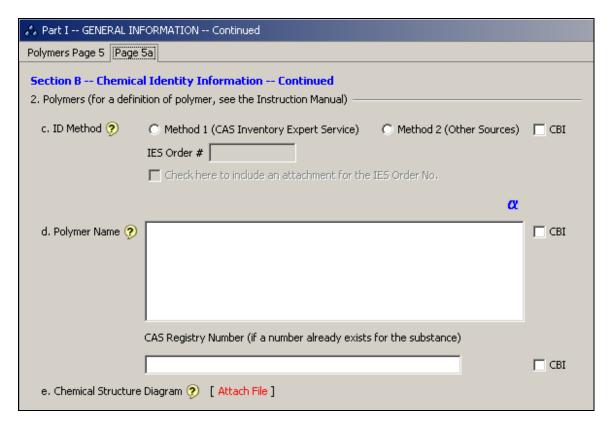


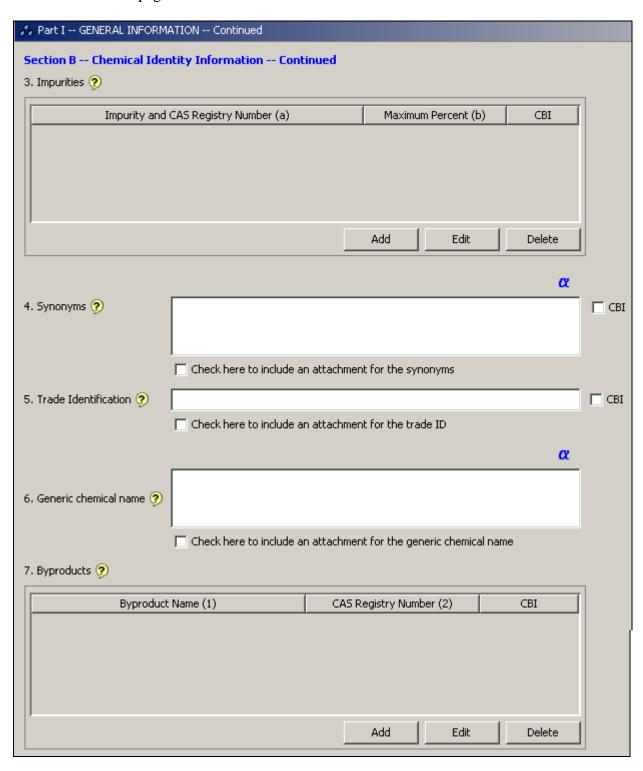
PMN Form - PMN page 4a

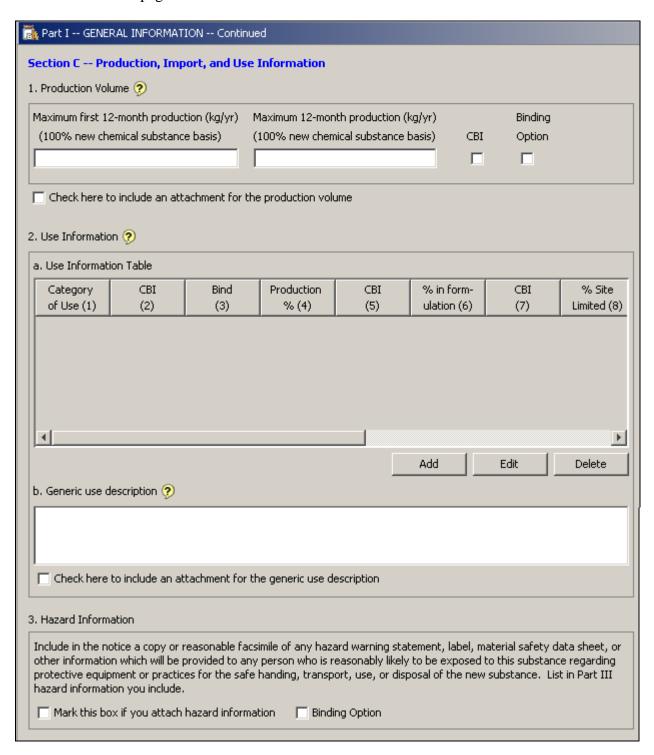
A Part I GENERAL INFORMATION Continued
Class 1 or 2 Substances Page 4 Page 4a
Class 2 Substance Details ————————————————————————————————————
Fill in below for a class 2 substance. (1) List the immediate precursor substances with their respective CAS Registry Numbers. (2) Describe the nature of the reaction 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

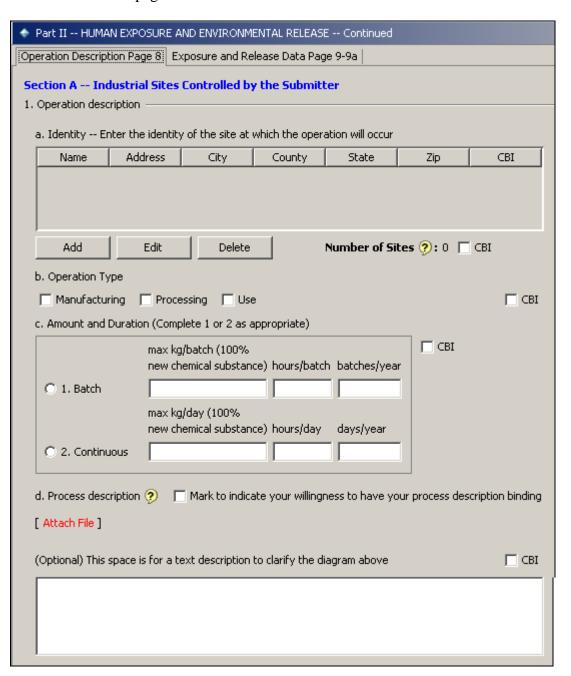




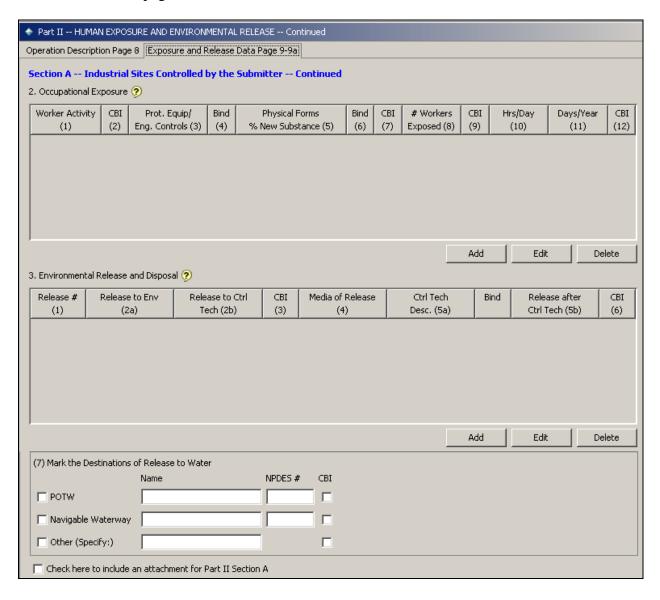


PMN Form - Header page for exposures/releases (PMN pages 8, 9 and 10)

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

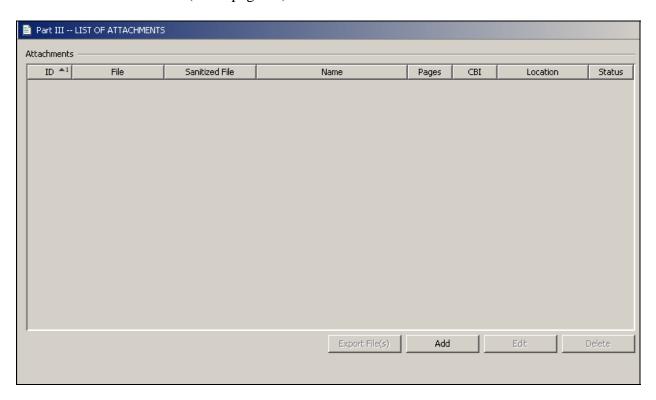


Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Continued		
Section B Industrial Sites Controlled by Others		
1(a). Operation Description 🦻 ———————————————————————————————————		
# of Sites O CBI		
Site Locations		
Operation Description [Attach File]		
1(b). (Optional) This space is for a text description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

PMN Form - Optional Pollution Prevention (PMN page 11)

👶 Optional Pollution Prevention Information
CP Optional Policion 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)

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) Γ Γ Physical state of neat substance ∇ °C Г $\overline{\mathbf{v}}$ Г @ Temperature Torr Density/relative density Г v Γ g/cm3 □ Solubility @ Temperature Solvent Γ g/L $\overline{}$ Solubility in Water Г Г @ Temperature °C Г \sqcap Melting temperature w °C Boiling/sublimation temperature Γ $\overline{\mathbf{v}}$ Γ @ [torr pressure ☐ Spectra v Γ Г Dissociation constant \forall Particle size distribution Γ Γ Г Octanol/water partition coefficient Γ Henry's Law constant $\overline{\mathbf{v}}$ \Box Г Volitalization from water ∇ Volitalization from soil \Box Γ ☐ PH @ concentration [Γ Г ☐ Flammability Γ Г Explodability Γ Γ 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)

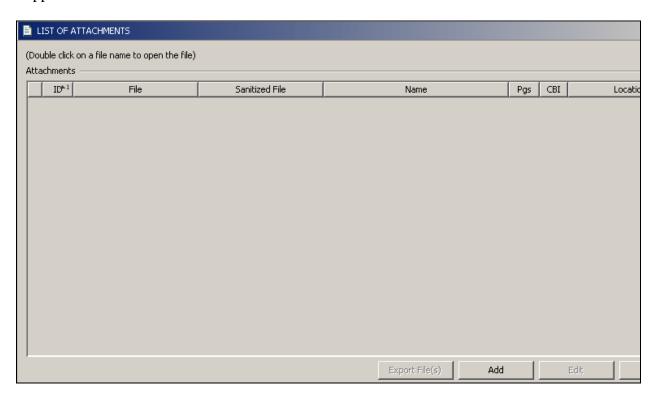
Cover Letter	
If you would like to include a cover letter, write it here.	

Screen Shots of the Support Form

Support form – Main page

Support Document		
Report Number 🥎		
I. Original Notice Submission Ide	entification —	
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	СВІ
(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	$\overline{\mathbf{v}}$
***For importees, the	ment is the date of completion of non-exempt made date of commencement is the date that the nest acturing Plant Site(s) or Importing Sites	s)	СВІ
Part V - Specific	c Chemical Identity		
			CBI
Part VI – Generi	ic Chemical Name		
Part VII - Subst	ance 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 7 aimed the substance identity as confidential and l the substance identity as confidential in my origin	nereby relinquish that claim.	:0

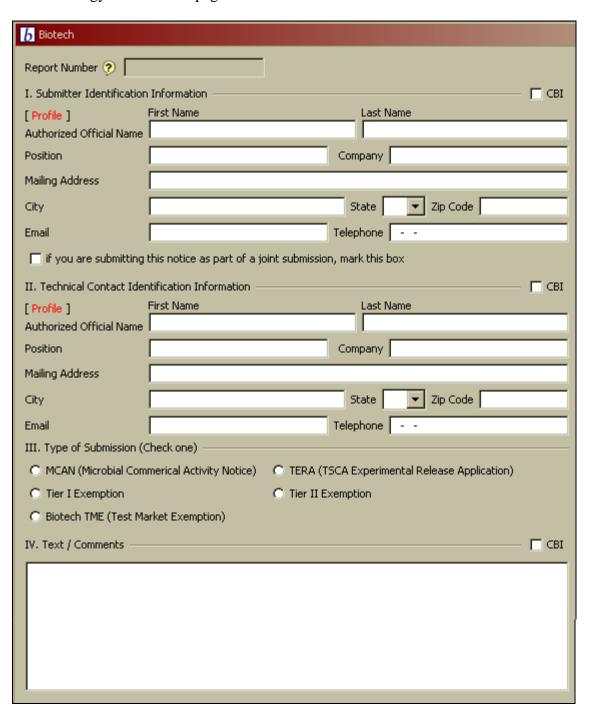
NOC Form – CBI Substantiation form

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

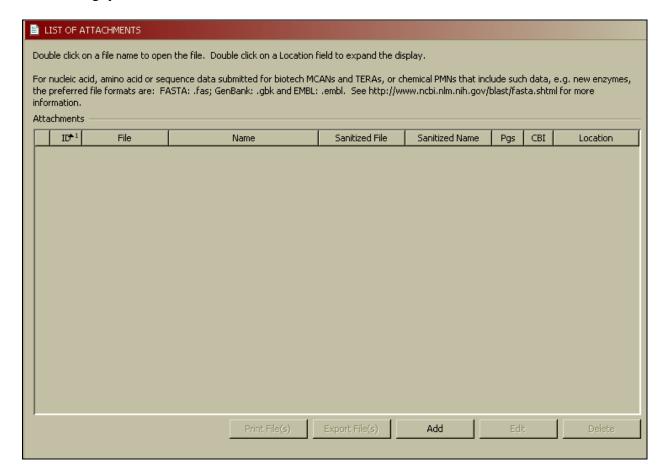
NOC Form – Optional Cover letter form

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

