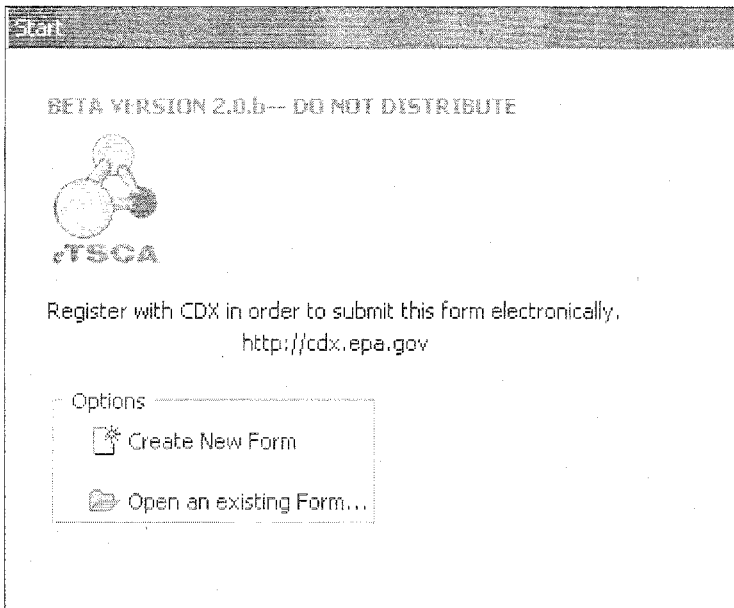
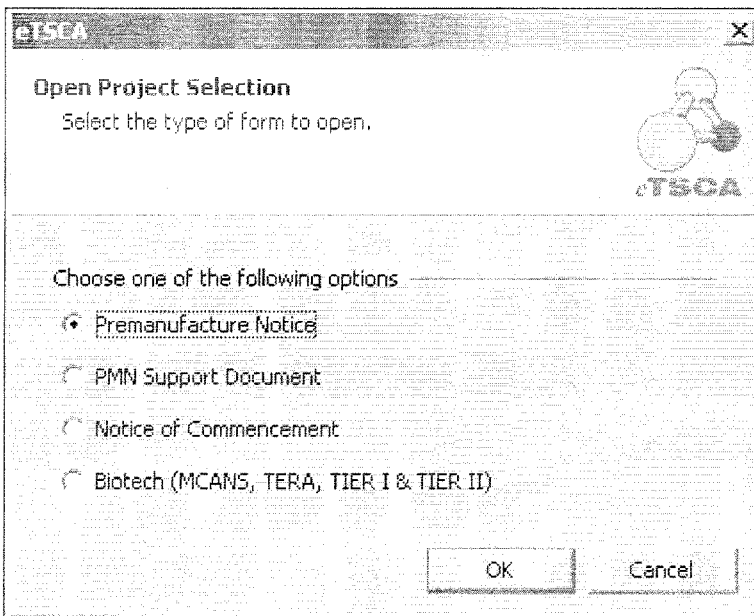


## Opening Screen



## 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	
<ul style="list-style-type: none"><li>• 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.</li><li>• 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).</li><li>• If a user fee has been remitted for this notice (40 CFR 700.45), indicate in the "TS" field the TS-user fee identification number you have generated. Remember, your user fee ID number must also appear on your corresponding fee remittance, which is sent to EPA, Washington Financial Management Center (3303), P.O. 360399M, Pittsburgh, PA 15251-6399, Attn. TSCA User fee.</li><li>• All fields are mandatory except for those denoted with &lt; &gt;</li><li>• If a field value is not known, enter 'NRO' for 'Not Readily Obtainable'</li></ul>	
Part I -- GENERAL INFORMATION	
You must provide the currently correct Chemical Abstracts (CA) Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submission will not be complete and the review will not begin until EPA receives this information. A letter in support of your submission should reference your TS user fee identification number. You must submit an original and two copies of this notice including all test data. If you claimed any information as confidential, a single sanitized copy must also be submitted.	
Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE	
If there are several manufacture, processing, or use operations to be described in Part II, sections A and B of this notice, reproduce the sections as needed.	
Part III -- LIST OF ATTACHMENTS	
Attach additional sheets if there is not enough space to answer a question fully. Label each continuation sheet with the corresponding section heading. In Part III, list these attachments, any test data or other data and any optional information included in the notice.	
OPTIONAL INFORMATION	
You may include any information that you want EPA to consider in evaluating the new substance. On page 11 of this form, space has been provided for you to describe pollution prevention and recycling information you may have regarding the new substance. So-called "binding" boxes are included throughout this form for you to indicate your willingness to be bound to certain statements you make in this section, such as use, production volume, protective equipment . . . This option is intended to reduce delays that routinely accompany the development of consent orders or Significant New Use Rules. Except in the case of exemption applications (such as TMEA, LVE, LOREX) where certain information provided in such notification is binding on the submitter when the Agency approves the exemption application, checking a binding box in this notice does not by itself prohibit the submitter from later deviating from the information (except chemical identity) reported in the form.	

GENERAL INSTRUCTIONS	
General Instructions Page 1 <b>Page 1 continued</b>	
PMN Identification ?	
TS	Payment ID
Test Data (Check below any included in this notice) ?	
Environmental fate data <input type="checkbox"/> Yes	Other data <input type="checkbox"/> Yes
Health effects data <input type="checkbox"/> Yes	Risk assessments <input type="checkbox"/> Yes
Environmental effects data <input type="checkbox"/> Yes	Structure/activity relationships <input type="checkbox"/> Yes
Physical/Chemical Properties <input type="checkbox"/> Yes	Test data not in the possession or control of the submitter <input type="checkbox"/> Yes
Type of Notice	
<input checked="" type="radio"/> PMN (Premanufacture Notice)	
<input type="radio"/> SNUN (Significant New Use Notice)	
<input type="radio"/> TMEA (Test Marketing Exemption Application)	
<input type="radio"/> LVE (Low Volume Exemption)@40 CFR 723.50(c)(1)	
<input type="radio"/> LOREX (Low Release/Low Exposure Exemption)@ 40 CFR 723.50(c)(2)	
<input type="radio"/> LVE Modification	
<input type="radio"/> LOREX Modification	
Consolidated PMN	
IS THIS A CONSOLIDATED PMN? <input type="checkbox"/> Yes	
Confidentiality Claims ?	
<input type="checkbox"/> Mark if any information in this notice is claimed as confidential	

## PMN Form - Certification page (PMN page 2)

CERTIFICATION
<p>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.</p>
<p>I Certify to the best of my knowledge and belief:</p>
<ol style="list-style-type: none"><li>1. 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.</li><li>2. All information provided in this notice is complete and truthful as of the date of submission.</li><li>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.</li></ol>
<p><b>User Fee Certification</b></p>
<p>If you are submitting a PMN, Intermediate PMN, Consolidated PMN, or 5NUN, check the following user fee certification statement that applies:</p>
<p><input type="checkbox"/> The Company named in Part I, Section A has remitted the fee of \$2500 specified in 40 CFR 700.45(b), or</p>
<p><input type="checkbox"/> 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</p>
<p><input type="checkbox"/> 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).</p>
<p><b>LVE or LoREX Certification</b></p>
<p>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:</p>
<p><input type="checkbox"/> 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.</p>
<p><input type="checkbox"/> The manufacturer is familiar with the terms of this section and will comply with those terms; and</p>
<p><input type="checkbox"/> The new chemical substance for which the notice is submitted meets all applicable exemption conditions.</p>
<p><input type="checkbox"/> 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.</p>

Part I -- GENERAL INFORMATION	
<b>Section A -- Submitter Identification</b>	
1a. Person Submitting Notice (in U.S.) [ Copy From Profile ] <span style="float: right;"><input type="checkbox"/> CBI</span>	
Name of authorized official	Position
Company	
Mailing Address (number and street)	
City	State <input type="text" value="▼"/> ZIP Code
1b. Agent (if applicable) [ Copy From Profile ] <span style="float: right;"><input type="checkbox"/> CBI</span>	
Name of authorized official	Position
Company	
Mailing Address (number and street)	
City	State <input type="text" value="▼"/> ZIP Code
Phone Number	Email
<input type="checkbox"/> if you are submitting this notice as part of a joint submission, mark this box	
1c. Joint Submitter (if applicable) [ Copy From Profile ] <span style="float: right;"><input type="checkbox"/> CBI</span>	
Name of authorized official	Position
Company	
Mailing Address (number and street)	
City	State <input type="text" value="▼"/> Postal Code
Province	Country
Phone Number	
2. Technical Contact (in U.S.) [ Copy From Profile ] <span style="float: right;"><input type="checkbox"/> CBI</span>	
Name of authorized official	Position
Company	
Mailing Address (number and street)	
City	State <input type="text" value="▼"/> ZIP Code
Phone Number	Email
3. Prenotice Communication Number ?	<input type="text"/> <input type="checkbox"/> NONE <input type="checkbox"/> CBI
4. Previously Submitted Exemption No. ?	<input type="text"/> <input type="checkbox"/> NONE <input type="checkbox"/> CBI
5. Bona fide intent Notice Number ?	<input type="text"/> <input type="checkbox"/> NONE <input type="checkbox"/> CBI
6. Type of Notice	
1. <input type="radio"/> Manufacture Only    2. <input type="radio"/> Import Only    3. <input type="radio"/> Both	
<input type="checkbox"/> Binding Option <input type="checkbox"/> Binding Option	

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

**Part I - GENERAL INFORMATION - Continued**

Class 1 or 2 Substances Page 4 Page 4a

**Section B -- Chemical Identity Information**

1. Class 1 or 2 Chemical Substances

a. Class of Substance  Class 1  Class 2  CBI

b. Chemical Name ?  CBI

CAS Registry Number (if a number already exists for the substance)  CBI

c. ID Method ?  Method 1 (CAS Inventory Expert Service)  Method 2 (Other Sources)

IES Order #  Check here to include an attachment for the IES Order #.

d. Molecular Formula  CBI

e. Chemical Structure Diagram ? [ Attach File ]

**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

Part I -- GENERAL INFORMATION -- Continued

Polymers Page 5 Page 5a

Section B -- Chemical Identity Information -- Continued

2. Polymers (for a definition of polymer, see the Instruction Manual)

a. Polymer Weight Information ?  CBI

Method of Measurement ?  GPC  Other (specify)

(i) lowest weight avg. molecular weight

(ii) max. weight % below 500 molecular weight

(iii) max weight % below 1000 molecular weight

Check here to include an attachment for the polymer weight

b. Monomers ?

Monomer and CAS (1)	CBI (2)	Typ. Comp. (3)	ID Mark (4)	CBI (5)	Max. Res. (6)	CBI (7)

Part I -- GENERAL INFORMATION -- Continued

Polymers Page 5 Page 5a

Section B -- Chemical Identity Information -- Continued

2. Polymers (for a definition of polymer, see the Instruction Manual)

c. ID Method ?  Method 1 (CAS Inventory Expert Service)  Method 2 (Other Sources)  CBI

IES Order #

Check here to include an attachment for the IES Order No.

d. Polymer Name ?  CBI

CAS Registry Number (if a number already exists for the substance)

CBI

e. Chemical Structure Diagram ? [ Attach File ]



Part I -- GENERAL INFORMATION -- Continued

Section B -- Chemical Identity Information -- Continued

3. Impurities ?

Impurity and CAS Registry Number (a)	Maximum Percent (b)	CBI
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>		

4. Synonyms ?

α

CBI

Check here to include an attachment for the synonyms

5. Trade Identification ?

CBI

Check here to include an attachment for the trade ID

α

6. Generic chemical name ?

Check here to include an attachment for the generic chemical name

7. Byproducts ?

Byproduct Name (1)	CAS Registry Number (2)	CBI
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>		

**Part I -- GENERAL INFORMATION -- Continued**

**Section C -- Production, Import, and Use Information**

**1. Production Volume ?**

Maximum first 12-month production (kg/yr) (100% new chemical substance basis)	Maximum 12-month production (kg/yr) (100% new chemical substance basis)	CBI	Binding Option
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

Check here to include an attachment for the production volume

**2. Use Information ?**

**a. Use Information Table**

Category of Use (1)	CBI (2)	Bind (3)	Production % (4)	CBI (5)	% in formulation (6)	CBI (7)	% Site Limited (8)
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>&lt;</span> <span>&gt;</span> </div>							

Add
Edit
Delete

**b. Generic use description ?**

Check here to include an attachment for the generic use description

**3. Hazard Information**

Include in the notice a copy or reasonable facsimile of any hazard warning statement, label, material safety data sheet, or other information which will be provided to any person who is reasonably likely to be exposed to this substance regarding protective equipment or practices for the safe handling, transport, use, or disposal of the new substance. List in Part III hazard information you include.

Mark this box if you attach hazard information     Binding Option

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

**Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE**

**Overview**

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

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

◆ Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- continued

Operation Description Page 8 Exposure and Release Data Page 9-9a

**Section A -- Industrial Sites Controlled by the Submitter**

1. Operation description

a. Identity -- Enter the identity of the site at which the operation will occur

Name	Address	City	County	State	Zip	CBI

Number of Sites ? : 0  CBI

b. Operation Type

Manufacturing
  Processing
  Use
  CBI

c. Amount and Duration (Complete 1 or 2 as appropriate)

<input type="radio"/> 1. Batch	max kg/batch (100% new chemical substance)	hours/batch	batches/year	<input type="checkbox"/> CBI
	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="radio"/> 2. Continuous	max kg/day (100% new chemical substance)	hours/day	days/year	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	

d. Process description ?  Mark to indicate your willingness to have your process description binding

[ Attach File ]

(Optional) This space is for a text description to clarify the diagram above  CBI

◆ Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- CONTINUED

Operation Description Page 8 | Exposure and Release Data Page 9-9a

Section A -- Industrial Sites Controlled by the Submitter -- Continued

2. Occupational Exposure ?

Worker Activity (1)	CBI (2)	Prot. Equip/ Eng. Controls (3)	Bind (4)	Physical Forms % New Substance (5)	Bind (6)	CBI (7)	# Workers Exposed (8)	CBI (9)	Hrs/Day (10)	Days/Year (11)	CBI (12)
									Add	Edit	Delete

3. Environmental Release and Disposal ?

Release # (1)	Release to Env (2a)	Release to Ctrl Tech (2b)	CBI (3)	Media of Release (4)	Ctrl Tech Desc. (5a)	Bind	Release after Ctrl Tech (5b)	CBI (6)
						Add	Edit	Delete

(7) Mark the Destinations of Release to Water

	Name	NPDES #	CBI
<input type="checkbox"/> POTW			<input type="checkbox"/>
<input type="checkbox"/> Navigable Waterway			<input type="checkbox"/>
<input type="checkbox"/> Other (Specify:)			<input type="checkbox"/>

Check here to include an attachment for Part II Section A

Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- Continued

Section B -- Industrial Sites Controlled by Others

1(a). Operation Description ?

# of Sites   CBI

Site Locations

Operation Description [ Attach File ]

1(b). (Optional) This space is for a text description to clarify the diagram above  CBI

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)
------------------------	---------------	---------	--------------	----------------	---------	------------------------------

--	--	--	--	--	--	--

Add

Edit

Delete

(14) -- Byproducts  CBI (15)

Check here to include an attachment for Part II Section B

**Optional Pollution Prevention Information**

To claim information as confidential, place the specific information that you claim as confidential between braces (e.g. {cbl 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

Part III - LIST OF ATTACHMENTS

Attachments

ID ^	File	Sanitized File	Name	Pages	CBI	Location	Status
------	------	----------------	------	-------	-----	----------	--------

Export Files | Add | Edit | Delete

PMN Form - Properties Worksheet (PMN page 13)

Chemical Properties Worksheet																		
<p>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.</p>																		
Flag	Property (a)	Mark if Provided	Attachment (b)	Value (c)	Measured or Estimate	CBI (d)												
<input type="checkbox"/>	Physical state of neat substance	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Vapor Pressure	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	@ Temperature <input type="text"/> °C	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	Torr <input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Density/relative density	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
				g/cm3	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Solubility	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	@ Temperature <input type="text"/> °C	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	Solvent <input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	g/L <input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Solubility in Water	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	@ Temperature <input type="text"/> °C	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	°C <input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Melting temperature	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
				°C	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Boiling/sublimation temperature	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	@ <input type="text"/> torr pressure	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	°C <input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Spectra	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Dissociation constant	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Particle size distribution	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Octanol/water partition coefficient	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Henry's Law constant	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Volatilization from water	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Volatilization from soil	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	PH	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
	@ concentration <input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Flammability	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Explosibility	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
<input type="checkbox"/>	Adsorption/coefficient	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>												
Other - Specify																		
<table border="1"> <thead> <tr> <th>Property (a)</th> <th>Mark if Provided</th> <th>Attachment (b)</th> <th>Value (c)</th> <th>M or E</th> <th>CBI</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="height: 100px;"></td> </tr> </tbody> </table>							Property (a)	Mark if Provided	Attachment (b)	Value (c)	M or E	CBI						
Property (a)	Mark if Provided	Attachment (b)	Value (c)	M or E	CBI													
				<input type="button" value="Edit"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>												



PMN Form - Cover letter (optional)

Cover Letter

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

[Empty text area for cover letter]

**Printed PMN Form**

## Cover Letter

Optional cover letter goes in this space.



P1C1

<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>		<b>AGENCY USE ONLY</b>	
 <b>EPA</b>	<b>PREMANUFACTURE NOTICE</b>		Date of receipt: _____
	<b>FOR NEW CHEMICAL SUBSTANCES</b>		
<b>When completed, send this form to:</b>	If sending by Courier: Office of Pollution Prevention and Toxics Document Control Office (7407M) US EPA, 1201 Constitution Ave NW WASHINGTON, D.C. 20460 Contact Numbers: 202-564-8930/8940	If sending by US Mail: Office of Pollution Prevention and Toxics Document Control Office (7407M) US EPA, 1200 Pennsylvania Ave NW WASHINGTON, D.C. 20460	<b>Submission Report Number</b>
			KATH599885779
<b>Total Number of Pages</b>	<b>User Fee Payment ID Number</b>		<b>TS Number</b>
19	abc123456		123456
<b>GENERAL INSTRUCTIONS</b>			
<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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).</li> <li>• If a user fee has been remitted for this notice (40 CFR 700.45), indicate in the boxes above the TS-user fee identification number you have generated. Remember, your user fee ID number must also appear on your corresponding fee remittance, which is sent to EPA, Washington Financial Management Center (3303), P.O. 360389M, Pittsburgh, PA 15251-6399, Attn: TSCA User fee. Indicate the Payment ID number in the box above with the payment source number (e.g., check number, transaction number or wire number).</li> </ul>			
<b>Part I – GENERAL INFORMATION</b>  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. For all Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data; if you claimed any information as confidential, an original sanitized copy must also be submitted.		<b>TEST DATA AND OTHER DATA</b>  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. <u>Complete test data (written in English), not summaries of data, must be submitted if they do not appear in the open literature.</u> 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).	
<b>Part II – HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE</b> 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.		<b>Test Data (Check Below any included in this notice)</b> <input type="checkbox"/> Environmental fate data <input type="checkbox"/> Other Data <input type="checkbox"/> Health effects data <input type="checkbox"/> Risk Assessments <input type="checkbox"/> Environmental effects data <input type="checkbox"/> Structure/activity relationships <input type="checkbox"/> Physical/Chemical Properties (A physical and chemical properties worksheet is located on the last page of this form.) <input type="checkbox"/> Test data not in the possession or control of the submitter.	
<b>Part III – LIST OF ATTACHMENTS</b> For paper submissions, 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.		<b>TYPE OF NOTICE (Check Only One)</b> <input checked="" type="checkbox"/> <b>PMN</b> (Premanufacture Notice) <input type="checkbox"/> <b>SNUN</b> (Significant New Use Notice) <input type="checkbox"/> <b>TMEA</b> (Test Marketing Exemption Application) <input type="checkbox"/> <b>LVE</b> (Low Volume Exemption) @ 40 CFR 723.50(c)(1) <input type="checkbox"/> <b>LOREX</b> (Low Release/Low Exposure Exemption) @ 40 CFR 723.50(c)(2) <input type="checkbox"/> <b>LVE Modification</b> <input type="checkbox"/> <b>LOREX Modification</b> <input type="checkbox"/> <b>Mock Submission</b> <input type="checkbox"/> <b>Mark (X) if pending Letter of Support</b>	
<b>OPTIONAL INFORMATION</b> 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. "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 . . . The intention is to reduce delays that routinely accompany the development of consent orders or Significant New Use Rules. Checking a "binding" box in a PMN does not by itself prohibit the submitter from later deviating from the information (except chemical identity) reported in the form; however, in the case of exemption applications (such as TMEA, LVE, LOREX) certain information provided in such notifications is binding on the submitter when the Agency approves the exemption application, especially if the production volume "binding" box is chosen in a LVE.		IS THIS A CONSOLIDATED PMN (Y/N)? _____ # of chemicals or polymers (Prenotice Communication # required, enter # on p. 3). <input type="checkbox"/> <b>Mark (X) if any information in this notice is claimed as confidential.</b>	
<b>CONFIDENTIALITY CLAIMS</b> You may claim any information in this notice as confidential. To assert a claim on the form, mark (X) the confidential box next to the information that you claim as confidential. To assert a claim in an attachment, circle or bracket the information you claim as confidential. <u>If you claim information in the notices as confidential, you must also provide a sanitized version of the notice, (including attachments).</u> For additional instructions on claiming information as confidential, read the Instructions Manual.			



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### PMN Page 2

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

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

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

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

**Additional Certification Statements:**

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

- 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).

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.

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.

Confidential

Signature and title of Authorized Official (Original Signature Required)		Date	<input type="checkbox"/>
Signature of agent – (if applicable)		Date	<input type="checkbox"/>



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### PMN Page 3

### Part I -- GENERAL INFORMATION

#### Section A -- SUBMITTER IDENTIFICATION

Mark (X) the "Confidential" box next to any subsection you claim as confidential

<b>1a. Person Submitting Notice (in U.S.)</b>		Confidential		
Name of Authorized Official		<input type="checkbox"/>		
Position				
Company				
Mailing Address (number & street)				
City	State			Postal Code
email				
<b>b. Agent (if Applicable)</b>		Confidential		
Name of Authorized Official		<input type="checkbox"/>		
Position				
Company				
Mailing Address (number & street)				
City	State			Postal Code
e-mail	Telephone (include area code)			
<b>c. Joint Submitter (if applicable)</b>		Confidential		
If you are submitting this notice as part of a joint submission, mark (X)		<input type="checkbox"/>		
Name of Authorized Official		<input type="checkbox"/>		
Position				
Company				
Mailing Address (number & street)				
City	State			Postal Code
Province	Country			Telephone (include country or area code)
<b>2. Technical Contact (in U.S.)</b>		Confidential		
Name of Authorized Official		<input type="checkbox"/>		
Position				
Company				
Mailing Address (number & street)				
City	State			Postal Code
e-mail	Telephone (include area code)			
<b>3.</b>	If you have had a prenotice communication (PC) concerning this notice and EPA assigned a PC Number to the notice, enter the number.	Mark (X) if none <input type="checkbox"/>	Confidential <input type="checkbox"/>	
<b>4.</b>	If you previously submitted an exemption application for the chemical substance covered by this notice, enter the exemption number assigned by EPA. If you previously submitted a PMN for this substance enter the PMN number assigned by EPA (i.e. withdrawn or incomplete).	Mark (X) if none <input type="checkbox"/>	Confidential <input type="checkbox"/>	
<b>5.</b>	If you have submitted a notice of Bona fide intent to manufacture or import for the chemical substance covered by this notice, enter the notice number assigned by EPA.	Mark (X) if none <input type="checkbox"/>	Confidential <input type="checkbox"/>	
<b>6. Type of Notice -- Mark (X)</b>				
<b>1.</b>	Manufacture Only <input type="checkbox"/>	<b>2.</b>	Import Only <input type="checkbox"/>	
	Binding Option <input type="checkbox"/>		Binding Option <input type="checkbox"/>	
		<b>3.</b>	Both <input checked="" type="checkbox"/>	



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### PMN Page 4

#### Part I – GENERAL INFORMATION – Continued

**Section B – CHEMICAL IDENTITY INFORMATION:**

You must provide a currently correct Chemical Abstracts (CA) name of the substance 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 (Polymers) as appropriate. Complete all other items.

If another person will submit chemical identity information for you (for either Item 1 or 2), mark (X) the box at the right. Identify the name, company, and address of that person in a continuation sheet.

1. Class 1 or 2 chemical substances (for definitions of class 1 and class 2 substances, see the Instructions Manual)

Class 1

Class 2

CBI

a. Class of substance - Mark (X)

b. Chemical name (Currently correct Chemical Abstracts (CA) Name that is consistent with TSCA Inventory listings for similar substances. For Class 1 substances a CA Index Name must be provided. For Class 2 substances either a CA Index Name or CA Preferred Name must be provided, which ever is appropriate based on current CA index nomenclature rules and conventions).

CAS Registry Number (if a number already exists for the substance)

c. Please identify which method you used to develop or obtain the specified chemical identity information reported in this notice: (check one).

**Method 1** (CAS Inventory Expert Service - a copy of the identification report obtained from the CAS Inventory Expert Services must be submitted as an attachment to this notice)

IES Order Number

**Method 2** (Other Source)

Enter Attachment filename for Part I, Section B, 1. c.

d. Molecular formula

e. For a class 1 substance, provide a complete and correct chemical structure diagram. For a class 2 substance, provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained.

Enter Attachment filename for Part I, Section B, 1. e.



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### PMN Page 4a

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).

Confidential

e. (1) List the immediate precursor substance names with their respective CAS Registry Numbers.

Enter Attachment filename for Part I, Section B, 1. e. (1)

e. (2) Describe the nature of the reaction or process.

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)





P5C1

PMN Page 5

Part I -- GENERAL INFORMATION -- Continued

Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

2. Polymers (For a definition of polymer, see the Instructions Manual.) Confidential

a. Indicate the number-average weight of the lowest molecular weight composition of the polymer you intend to manufacture. 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.

Describe the methods of measurement or the basis for your estimates:

GPC [ ] Other (Specify Below) [ ]

Specify Other:

Table with 3 columns: (i) lowest number average molecular weight, (ii) maximum weight % below 500 molecular weight, (iii) maximum weight % below 1000 molecular weight.

Enter Attachment filename for Part I, Section B, 2. a.

b. You must make separate confidentiality claims for monomer or other reactant identity, composition information, and residual information. Mark (X) the "Confidential" box next to any item you claim as confidential

- (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.
(2) - Mark (X) this column if entry in column (1) is confidential.
(3) - Indicate the typical weight percent of each monomer or other reactant in the polymer.
(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.
(5) - Mark (X) this column if entries in columns (3) and (4) are confidential.
(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.
(7) - Mark (X) this column if entry in column (6) is confidential.

Table with 7 columns: Monomer or other reactant specific chemical name (1), CBI (2), Typical composition (3), Include in identity (4), CBI (5), Max residual (6), CBI (7). Includes rows for CAS Registry Number (1).

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



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### PMN Page 5a

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



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### PMN Page 6

## Part I -- GENERAL INFORMATION -- Continued

### Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

#### 3. Impurities

- (a) - Identify each impurity that may be reasonably anticipated to be present in the chemical substance as manufactured for commercial purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, enter "unidentified."
- (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate their total weight %.

Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	Confidential

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

#### 4. Synonyms - Enter any chemical synonyms for the new chemical identified in subsection 1 or 2.

Enter Attachment filename for Part I, Section B, 4.

#### 5. Trade identification - List trade names for the new chemical substance identified in subsection 1 or 2.

Enter Attachment filename for Part I, Section B, 5.

#### 6. Generic chemical name - If you claim chemical identify as confidential, you must provide a generic name for your substance that reveals the specific chemical identity of the new chemical substance to the maximum extent possible. Refer to the TSCA Chemical Substance Inventory, 1985 Edition, Appendix B for guidance on developing generic names.

Enter Attachment filename for Part I, Section B, 6.

#### 7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of the new chemical substance. Provide the CAS Registry Number if available.

Byproduct (1)	CAS Registry Number (2)	Confidential

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



P7C1

### PMN Page 7

## Part I -- GENERAL INFORMATION -- Continued

### Section C -- PRODUCTION, IMPORT, AND USE INFORMATION:

The information on this page refers to consolidated chemical number(s):  1  2  3  4  5  6

Mark (X) the "Confidential" box next to any item you claim as confidential.

**1. Production volume** -- Estimate the maximum production volume during the first 12 months of production. Also estimate the maximum production volume for any consecutive 12-month period during the first three years of production. Estimates should be on 100% new chemical substance basis. For a Low Volume Exemption application, if you choose to have your notice reviewed at a lower production volume than 10,000 kg/yr, specify the volume and mark (x) in the binding box. If granted, you are bound to this volume.

Maximum first 12-month production (kg/yr) (100% new chemical substance basis)	Maximum 12-month production (kg/yr) (100% new chemical substance basis)	Confidential	Binding Option Mark (X)
		<input type="checkbox"/>	<input type="checkbox"/>
Enter Attachment filename for Part I, Section C, 1.			CBI <input type="checkbox"/>

**2. Use Information** -- You must make separate confidentiality claims for the description of the category of use, the percent of production volume devoted to each category, the formulation of the new substance, and other use information. Mark (X) the "Confidential" Box next to any item you claim as confidential.

- a. (1) --Describe each intended category of use of the new chemical substance by function and application.
- (2) --Mark (X) this column if entry column (1) is confidential business information (CBI).
- (3) --Indicate your willingness to have the information provided in column (1) binding.
- (4) --Estimate the percent of total production for the first three years devoted to each category of use.
- (5) --Mark (X) this column if entry in column (4) is confidential business information (CBI).
- (6) --Estimate the percent of the new substance as formulated in mixtures, suspensions, emulsions, solutions, or gels as manufactured for commercial purposes at sites under your control associated with each category of use.
- (7) --Mark (X) this column if entry in column (6) is confidential business information (CBI).
- (8) --Indicate % of product volume expected for the listed "use" sectors. Mark more than one box if appropriate. Mark (X) to indicate your willingness to have the use type provided in (8) binding.
- (9) --Mark (X) this column if entry(ies) in column (8) is (are) confidential business information (CBI).

Category of use (1) (by function and application i.e. a dispersive dye for finishing polyester fibers)	CBI (2)	Binding Option Mark (X) (3)	Prod uction % (4)	CBI (5)	% in Form- ulation (6)	CBI (7)	% of substance expected per use (8)					CBI (9)
							Site- limitec	Con- sumer*	ndustrial	Com- mercial	Binding Option	

\* If you have identified a "consumer" use, please provide on a continuation sheet a detailed description of the use(s) of this chemical substance in consumer products. In addition include estimates of the concentration of the new chemical substance as expected in consumer products and describe the chemical reactions by which this substance loses its identity in the consumer product.

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

- b. Generic use description: If you claim any category of use description in subsection 2a as confidential, enter a generic description of that category. Read the Instruction Manual for examples of generic use descriptions.

Enter Attachment filename for Part I, Section C, 2. b.	CBI <input type="checkbox"/>
--	------------------------------

**3. Hazard Information** -- Include in the notice a copy of reasonable facsimile of any hazard warning statement, label, material safety data sheet, or other information which will be provided to any person who is reasonably likely to be exposed to this substance regarding protective equipment or practices for the safe handling, transport, use, or disposal of the new substance. List in part III hazard information you include.

Mark (X) this box if you attach hazard information.



P8C1

### PMN Page 8

## Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

### Section A -- INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER

Mark (X) the "Confidential" box next to any item you claim as confidential

The information on pages 8 and 8a refer to consolidated chemical number(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 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

1. Operation description  
a. Identity -- Enter the identity of the site at which the operation will occur. Confidential

Name				<input type="checkbox"/>
Site address (number and street)				
City	County			
State	ZIP code			

If the same operation will occur at more than one site, enter the number of sites. Identify the additional sites on a continuation sheet, and if any of the sites have significantly different production rates or operations, include all the information requested in this section for those sites as attachments. →

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

b. Type --  
Mark (X)      Manufacturing       Processing       Use  Confidential

c. Amount and Duration -- Complete 1 or 2 as appropriate Confidential

1. Batch	Maximum kg/batch (100% new chemical substance)	Hours/batch	Batches/year	<input type="checkbox"/>
2. Continuous	Maximum kg/day (100% new chemical substance)	Hours/day	Days/year	<input type="checkbox"/>

d. Process description Mark (X) to indicate your willingness to have your process description binding.

- (1) Diagram the major unit operation steps and chemical conversions. Include interim storage and transport containers (specify- e.g. 5 gallon pails, 55 gallon drum, rail car, tank truck, etc.).
- (2) Provide the identity, the approximate weight (by kg/day or kg/batch on a 100% new chemical substance basis), and entry point of all starting materials and feedstocks (including reactants, solvents, catalysts, etc.), and of all products, recycle streams, and wastes. Include cleaning chemicals (note frequency if not used daily or per batch.).
- (3) Identify by number the points of release, including small or intermittent releases, to the environment of the new chemical substance. If releasing to two media at the same step, assign a second release number for the second medium.



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PMN Page 8a

Diagram of the major unit operation steps.

Confidential



Large empty rectangular area for the diagram.

Enter Attachment filename for Part II, Section A, 1. d.





P9C1

### PMN Page 9

#### Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- Continued

##### Section A -- INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER -- Continued

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 entry in column (5) is 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) -- Estimate the maximum duration of the activity for any worker in hours per day and days per year.
- (12) -- Mark (X) this column if entries in columns (10) and (11) are confidential business information (CBI).

Worker activity (i.e., bag dumping, filling drums) (1)	CBI (2)	Protective Equipment/ Engineering Controls (3)	Binding Option Mark (X) (4)	Physical form(s) & % new substance (5)	Binding Option Mark (X) (6)	CBI (7)	# of Workers Exposed (8)	CBI (9)	Maximum Duration		CBI (12)
									Hrs/Day (10)	Days/Yr (11)	

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

Enter Attachment filename for Part II, Section A on the bottom of page 9a.



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### PMN Page 9a

**3. Environmental Release and Disposal** -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.

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

Release Number (1)	Amount of New Substance Released		CBI (3)	Medium of release e.g. Stack air (4)	Control technology and efficiency (you may wish to optionally attach efficiency data)			CBI (6)
	(2a)	(2b)			(5a)	Binding Mark (X)	(5b)	

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

(7) Mark (X) the destination(s) of releases to water.		NPDES#	CBI
<input type="checkbox"/> POTW--provide name(s)			<input type="checkbox"/>
<input type="checkbox"/> Navigable waterway- - provide name(s)			<input type="checkbox"/>
<input type="checkbox"/> Other--Specify			<input type="checkbox"/>

Enter Attachment filename for Part II, Section A.





P10C1

### PMN Page 10

## Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- Continued

### Section B -- INDUSTRIAL SITES CONTROLLED BY OTHERS

The information on pages 10 and 10a refer to consolidated chemical number(s):  1  2  3  4  5  6

Complete section B for typical processing or use operations involving the new chemical 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. Identify additional sites on a continuation sheet.

**1(a). Operation Description** -- To claim information in this section as confidential, bracket (e.g. {}) the specific information that you claim as confidential.

- (1) -- Diagram the major unit operation steps and chemical conversions, including interim storage and transport containers (specify - e.g. 5 gallon pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify by letter and briefly describe each worker activity.
- (2) -- Either in the diagram or in the text field 1(b) below, provide the identity, the approximate weight (by kg/day or kg/batch, on an 100% new chemical substance basis), and entry point of all feedstocks (including reactants, solvents and catalysts, etc) and all products, recycle streams, and wastes. Include cleaning chemicals (note frequency if not used daily or per batch).
- (3) -- Either in the diagram or in the text field 1(b) below, identify by number the points of release, including small or intermittent releases, to the environment of the new chemical substance.
- (4) -- Please enter the # of sites (remember to identify the locations of these sites on a continuation sheet):

Number of Sites

Confidential

**1(b).** (Optional) This space is for a text description to clarify the diagram above.

Confidential

Enter Attachment filename for Part II, Section B on the bottom of page 10a.



P10AC1

### PMN Page 10a

#### 2. Worker Exposure/Environmental Release

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

Letter of Activity	# of Workers Exposed	CBI	Duration of Exposure		CBI	Protective Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	CBI
			(4a)	(4b)					

Release Number	Amount of New Substance Released		CBI	Media of Release & Control Technology	CBI
	(10a)	(10b)			

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

(14) Byproducts:  (15) CBI

Enter Attachment filename for Part II, Section B.



P11C1

**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 an existing substance that poses a greater overall risk to human health or the environment.

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.

Enter Attachment filename for Pollution Prevention Page 11.





P12C1

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	CBI
001	Structure	29267105.doc	1		

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



P13C1

### PMN Page 13

#### PHYSICAL AND CHEMICAL PROPERTIES WORKSHEET

The information on this page refers to chemical number(s):  1  2  3  4  5  6

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 value of the property, the units in which the property is measured (as necessary), and whether or not the property is claimed as confidential. Give the attachment number (found on page 12) in column (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 the 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.

Property (a)	Unit	Mark X if Provided	Attachment Number (b)	Value (c)			Measured or Estimate (M or E)	CBI Mark (X) (d)
				(solid)	(liquid)	(gas)		
Physical state of neat substance		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Vapor Pressure @ Temperature	°C	<input type="checkbox"/>				Torr		
Density/relative density		<input type="checkbox"/>				g/cm3		
Solubility								
@ Temperature	°C	<input type="checkbox"/>				g/L		
Solvent								
Solubility in Water @ Temperature	°C	<input type="checkbox"/>				g/L		
Melting Temperature		<input type="checkbox"/>				°C		
Boiling / Sublimation temperature @	Torr	<input type="checkbox"/>				°C		
Spectra		<input type="checkbox"/>						
Dissociation constant		<input type="checkbox"/>						
Octanol / water partition coefficient		<input type="checkbox"/>						
Henry's Law constant		<input type="checkbox"/>						
Volatilization from water		<input type="checkbox"/>						
Volatilization from soil		<input type="checkbox"/>						
pH@ concentration		<input type="checkbox"/>						
Flammability		<input type="checkbox"/>						
Explodability		<input type="checkbox"/>						
Adsorption / Coefficient		<input type="checkbox"/>						
Other - Specify		<input type="checkbox"/>						
Other - Specify		<input type="checkbox"/>						

ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name

Structure

Associated PMN Section Number

N/A

Number of Pages

1

Contains CBI

No

# 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

Original Submission Media Type

II. Original Notice Submitter Identification  CBI

[ Profile ]

Authorized Official Name  Position

Company

Mailing Address

City  State  Zip Code

Email  Telephone

III. Current Notice Submitter Identification  CBI

[ Profile ]

Authorized Official Name  Position

Company

Mailing Address

City  State  Zip Code

Email  Telephone

IV. Type of Support (Check one)

Letter of Support       Withdrawal Request

Other Correspondence       TEST DATA (Health/Eco/Fate)

Amendment (Changes made to PMN pages 1-13, MSDS or Physical/Chemical properties)

Check if requested by EPA/Contractor

V. Text / Description of Changes  CBI

# Support form – Attachments section

**LIST OF ATTACHMENTS**

(Double click on a file name to open the file)

Attachments

ID <sup>1</sup>	File	Sanitized File	Name	Pgs	CBI	Locatic
Export Files						
Add						
Edit						



**Printed Support Document Form**

## EPA Support Form

<b>Support Form Report Number</b>	KATH398323194	<b>Mark (X) if anything is CBI</b>
<b>I. ORIGINAL NOTICE SUBMISSION IDENTIFICATION</b>		
Report Number	TS Number	Case Number
Original Submission Date		
Original Submission Media Type		
<b>II. ORIGINAL NOTICE SUBMITTER IDENTIFICATION</b>		<b>CBI</b>
Authorized Official Name	Position	
Company Name		
Mailing Address (Number & Street)		
City	State	Postal Code
e-mail	Telephone (include area code)	
<b>III. CURRENT SUPPORT DOCUMENT IDENTIFICATION INFORMATION</b>		<b>CBI</b>
Name	Position	
Company		
Mailing Address (Number & Street)		
City	State	Postal Code
e-mail	Telephone (include area code)	
<b>IV. TYPE OF SUPPORT (Check One)</b>		
<input type="checkbox"/>	Letter of Support	
<input type="checkbox"/>	Withdrawal Request	
<input type="checkbox"/>	Other Correspondence	
<input type="checkbox"/>	TEST DATA (Health/Eco/Fate)	
<input type="checkbox"/>	Amendment (Changes made to PMN pages 1-13, MSDS or Physical/Chemical properties)	
Check if requested by EPA/ contractor		
EPA person/ contractor		

V. TEXT / DESCRIPTION OF CHANGES	CBI	
----------------------------------	-----	--

Insert Attachment	
-------------------	--

## LIST OF ATTACHMENTS

#	Attachment name	Attachment Filename	Number of Pages	Associated PMN Section Number	CBI
001	Amended pages 4 and 5	144354b.doc	2		

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

ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name

Amended pages 4 and 5

Associated PMN Section Number

N/A

Contains CBI

No

# Screen Shots of the NOC Form

## NOC Form – Main page

Notice of Commencement			
Notice of Commencement		CBI Substantiation	Optional Cover Letter
Report Number: KATH552226305			
<b>Part I - SUBMITTER IDENTIFICATION</b>			
Manufacturer/ Importer (in U.S.) [ Profile ]	Name of Authorized Official		Mailing Address (number and street)
	Company Name		City State Zip
Technical Contact (in U.S.)	Name		Telephone Number
<b>Part II - Premanufacture Notice (PMN) 'P' Case Number</b> ?			
<b>Part III - Check the appropriate box and provide the exact date of manufacture or importation</b>			
<input checked="" type="radio"/> First Commercial Manufacture**		<input type="radio"/> First Commercial Importation***	
Date		Date	
**Date of commencement is the date of completion of non-exempt manufacture of the first amount (bath, drum, etc.)			
***For importees, the date of commencement is the date that the new chemical substance clears U.S. customs.)			
<b>Part IV - Manufacturing Plant Site(s) or Importing Site(s)</b>			
<b>Part V - Specific Chemical Identity</b>			
<b>Part VI - Generic Chemical Name</b>			
<b>Part VII - Substance Identity Confidentiality Status</b>			
<input type="radio"/> I wish to continue to claim the substance identity confidential and the substantiation to support this claim is attached. Failure to submit the required substantiation in accordance with 40 CFR 720.85(b) will result in a waiver of your claim.			
<input type="radio"/> I previously claimed the substance identity as confidential and hereby relinquish that claim.			
<input type="radio"/> I did not claim the substance identity as confidential in my original PMN submission.			

# NOC Form – CBI Substantiation form

Notice of Commencement		
Notice of Commencement	<b>CBI Substantiation</b>	Optional Cover Letter
<p>Substantiate confidentiality claims if you mark the substance identity (Part V) as CBI by answering the following questions:</p> <p>(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?</p> <p>(B) For what period of time should confidential treatment be given? Until a specific date, the occurrence of a specific event, or permanently? Why?</p> <p>(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?</p> <p>(D) Has the identity of the chemical substance been kept confidential to the extent that your competitors do not know it is being manufactured or imported for a commercial purpose by anyone?</p> <p>(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?</p> <p>(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?</p> <p>(G) To what extent has the fact that you are manufacturing or importing this chemical substance for a commercial purpose been disclosed to others? What precautions have you taken in regard to these disclosures? Has this information been disclosed to the public or to competitors?</p> <p>(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 identity?</p> <p>(I) If the chemical substance leaves the site of manufacture in a product that is available to either the public or your competitors, can they identify the substance by analyzing the product?</p> <p>(J) For what purpose do you manufacture or import the substance?</p> <p>(K) Has EPA, another Federal agency, or any Federal court made any pertinent confidentiality determinations regarding this chemical substance? If so, copies of such determinations must be included in the substantiation.</p> <p>(L) If the notice includes a health and safety study concerning the new chemical substance, the submitter must also answer the questions in 5720.90(b)(2).</p>		
<hr/>		

# NOC Form – Optional Cover letter form


Notice of Commencement		
Notice of Commencement	CBI Substantiation	<b>Optional Cover Letter</b>
<p>Use the space below to include an optional cover letter</p> <hr/>		

**Printed NOC Form**



## Cover Letter

Enter the optional cover letter in this space.

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

## CBI Substantiation Claim

Enter the substantiation claims in this space.

## EPA Biotech Form

**Biotech Form Report Number**

Mark (X) if anything is CBI

### I. SUBMITTER IDENTIFICATION INFORMATION

CBI

Name

Position

Company

Mailing Address  
(Number & Street)

City

State

Postal Code

e-mail

Telephone  
(include area code)

### II. TECHNICAL CONTACT IDENTIFICATION INFORMATION

CBI

Name

Position

Company

Mailing Address  
(Number & Street)

City

State

Postal Code

e-mail

Telephone  
(include area code)

### III. TYPE OF SUBMISSION (Check One)

- MCAN (Microbial Commercial Activity Notice)
- TERA (TSCA Experimental Release Application)
- Tier I Exemption
- Tier II Exemption
- Biotech TME (Test Market Exemption)

### IV. TEXT / COMMENTS

CBI