				Form Approved. O.N	4.B. N	0. 2070-0	012. Approv	al Expires 10-31-96
U.S. ENVI	IRONMENTAL PROTE	ECTION AGENO	CY				ONLY	
			Ī	Oste of receipt				
A	PREMANI	FACTURE	.					
SEPA		TICE						
NYCHA								
	FOR NEW CHEMICAL ST IF SENDING BY US MAIL:	UBSTANCES IF SENDING BY COURIE						
When	TS7407M DCO	TS7407M DCO						
completed send this	TSCA CBIC OPPTS-EPA	TSCA CBIC OPPTS I ROOM 6428	EPA					
form to	1200 PENNSYLVANIA AVE, WASHINGTON, DC 20460	1201 CONSTITUTION A						
Enter the total number of pages	WASHINGTON, DC 20400	WASHINGTON, DC 200	_	ocument control number		EPA cas	e number	
in the Premanufacture Notice	CHILDRAY I						11 11	
		NSTRUCTIONS			TS -	ĻIJĹ	_	,
 You must provide all ini not have actual data. 	formation requested in this form to	o une extent unat it is iun	ovn to	от теазопалну ассеттатвалье	oy you	. Make is	easonadie estir	nates ir you do
	s form, you should read the "Instr (TSCA) Information Service by c				truction	s Manual :	is available fro	m the Toxic
 If a user fee has been res 	mitted for this notice (40 CFR 700) 45), indicate in the bo	wes abo	ve the TS-user fee identific				
	: must also appear on your corresp A 15251-6399 , Attn. TSCA User		which	is sent to EPA, Washington	Financ	ial Manag	ement Center	(3303), P.O.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TCFA						
Part I — GENERAL INFORMATI	OM		TEST	DATA AND OTHER DAT	ΓA			
You must provide the currently con	ect Chemical Abstracts (CA) Name (of the new	You a	re required to submit all tes	st data ir	n wour pos	session orcor	itrol and to
chemical substance, even if you clai another region to submit chemical is	im the identity as confidential. You r dentity information for you, but your	ray authorize submission will	provid	ie a description of all other	data lm	own to or	reasonably as:	ertainable by
not be complete and the review will	not begin until EPA receives this inf	ormation Aletter		f these data are related to th facture, processing, distribu				
You must submit an original and tw	d reference your TS user fee identific o copies of this notice including all t	est data. If you		ical substance. Standard lite scientific literature. <u>Comple</u>				
claimed any information as confider	ntial, a single sanitized copy must als	o be submitted.	of dat	a, must be submitted if they	/do not	addear in	the open liter	<u>ature</u> . You should
Part II — HUMAN EXPOSURE A	ND ENVIRONMENTAL RELEASE	ī		y identify whether test data ical composition of the teste				
2719				amples of test data and othe quirements of §720.50 of th				
sections A and B of this notice, repi	ocessing, or use operations to be desc roduce the sections as needed.	noed in Part II,	Part 7		ie Fieli	arrorac (ore	e 140 di Leadoit I	XME (40 CFK
Part III — LIST OF ATTACHMEN	πs		Test D	ata (Check Below any incl	ludedin	this notice))	
Attach additional sheets if there is n	ot enough space to answer a question	nfully. Label each	• E1	nvironmental fate data		Yes	• Otherdata	Yes
	onding section heading. In Part III, li lata and any optional information incl		• н	ealth effects data		Yes	Risk assess	ments 🔲
			+ E1	nvironmental effects data		Yes	Structure/ac	tivity relationships
OPTIONAL INFORMATION			· Pł	ysical/Chemical Properties#	\Box	Yes	Test data no	ot in the possession
You may include any information th	nat you want EPA to consider in evals	rating the new			_		or control o	f the submitter 🔲
substance. On page 11 of this form	, space has been provided for you to nformation you may have regarding t	describe	* A	physical and chemical propert	ies worl	sheet is lo	rated on the last	page of this form.
		2.1	TYPE	OF NOTICE	(Che	olt Only O	ne)	
willingness to be bound to certain st	ded throughout this form for you to it tatements you make in this section, s	uch as use,	\Box	PMN (Premanufacture	Notice)			
	oment This option is intended to: ent of consent orders or Significant N		믐					
	plications (such as TMEA, LVE, LOI anotification is binding on the submit		Ш	INTERMEDIATE PM	N (subn	nitted in sec	quence with fire	al product PMIN)
Agency approves the exemption app	plication, checking a binding box in t later deviating from the information	his notice <u>does not</u>	\Box	SNUN (Significant Ne	w Use N	Jotiœ)		
identity) reported in the form	iasa deviadig from de montacon	(except orientificat	\Box	TMEA (Test Marketing	а Бузта	ntion 4 mili	cation)	
			닏	IMEA (165) Maneau	S Treath	yaan 12 ppa	Dawn,	
CONFIDENTIALITY CLAIMS			Ш	LVE (Low Volume Ex	emption)@40CF	R 723.50(c)(1)	
	his notice as confidential. To assert a next to the information that you claim		\Box	LOREX (Low Release	/Low Ex	oposume Ex	emption) @ 40	CFR 723.50(c)(2)
To assert a claim in an attachment, o	circle or bracket the information you on in the notices as confidential, you	claim as	=					
a sanitized version of the notice, (in	cluding attachments). For additional		Ш	LVE Modification			LOREX Modif	ication
claiming information as confidential	i, sau de risoucoris Mannai.		IS TH	is a consolidated pmin	P.		Yes	
Mark (x) if any informat	tion in this notice is claimed as confic	lential.		of chemicals or polymers _				
			(P:	renotice Communication # req	uired, er	nter#onpa	uge 3)	

Public reporting burden for this collection of information is estimated to average 105.5 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

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

The company named in Part I, section A, subsection 1a of this notice form intends to manufacture 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.									
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.										
Ado	ditional Certification Statements:										
•	ou are submitting a PMN, Intermediate PMN, Consolidated PMN, or SN ement that applies:	UN, check the following user fee cer	tification								
	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).										
and	ou are submitting a low volume exemption (LVE) application in accordance with 40 Clements:										
	The manufacturer submitting this notice intends to manufacture or imporpurposes, other than in small quantities solely for research and development of the control of the c										
	The manufacturer is familiar with the terms of this section and will comp	oly 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 manufacture of the exempted substance for commercial purposes within review period.										
	curacy of the statements you make in this notice should reflect your best prediction of the anticipate ed herein. Any knowing and willful misinterpretation is subject to criminal penalty pursuant to 18		Confidential								
ignatu	re and title of Authorized Official (Original Signature Required)	Date									
ignatu	re of agent - (if applicable)	Date									

	Part I GENERA	L INFORM	ATION									
Section A -	- SUBMITTER IDENTIFICATION					Con						
	Mark (X) the "Confidential" box next to any sul	bsection you clain	m as confiden	ıtial.		aen	tial					
1a. Person Submitting	Name of authorized official	Position			· · · ·							
Notice (in U.S.)	Company											
	Mailing address (number and street)			···								
	City, State, ZIP Code											
b. Agent (if applicable)	Name of authorized official	Position				********						
	Company		····									
	Mailing address (number and street)											
	City, State, ZIP Code	Telephone	Area Cod	le Number								
c. If you are su	bmitting this notice as part of a joint submission, mark (X) t	his box. —			<u></u> → □							
Joint Submitter (if applicable)	Name of authorized official	Position										
	Company											
	Mailing address (number and street)											
	City, State, ZIP Code	Telephone	Area Cod	le Number								
2. Technical Contact (in U.S.)	Name	Position		1								
(22. 0.0.)	Company											
	Mailing address (number and street)											
	City, State, ZIP Code	Telephone	Area Code	Number								
3. If you have had and EPA assign	a prenotice communication (PC) concerning this notice and a PC Number to the notice, enter the number.			Mark (X)	- 🗆							
substance cover by EPA. If you	ly submitted an exemption application for the chemical red by this notice, enter the exemption number assigned previously submitted a PMN for this substance enter the ssigned by EPA (i.e. withdrawn or incomplete).			Mark (X)	· 🗆							
import for the cl	mitted a notice of Bona fide intent to manufacture or hemical substance covered by this notice, enter the assigned by EPA.			Mark (X) if none	- 🗆							
. Type of Notice -	Binding Option Mark (x)	2.	Import Only BindingOp Mark (x)	otion 3.	Both							
ONVI EFA //10-2	5 (Rev. 5-95) Page 3						ĺ					

Part I GENERAL INFORMATION Continued		
Section B CHEMICAL IDENTITY INFORMATION: You must provide a currently correct Chemical Abstracts (CA) name of the substacts on the ninth Collective Index (9CI) of CA nomenclature rules and conventions.	ance	
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.	\dashv	-
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.	Con	
1. Class 1 or 2 chemical substances (for definitions of class 1 and class 2 substances, see the Instructions Manual)	uc.	LIGA
a. Class of substance Mark (X) 1 Class 1 or 2 Class 2		
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, whichever is appropriate based on CA 9CI nomenclature rules and conventions.).		
c. Please identify which method you used to develop or obtain the specified chemical indentity 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 Service must be submitted as an attachment to this notice)		
d. Molecular formula and CAS Registry Number (if a number already exists for the substance)		
CAS#		
e. For a class 1 substance, provide a complete and correct chemical structure diagram. 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). (4) Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained.		
· · · · · · · · · · · · · · · · · · ·		
Mark (X) this box if you attach a continuation sheet.		

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) i) lowest number average molecular weight: ii) maximum weight % below 500 molecular weight: iii) maximum weight % below 1000 molecular weight: Mark (X) this box if you attach a continuation sheet. 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. - 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) - Mark (X) the identity column 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. Monomer or other reactant and CAS Registry Number Confi-**Typical** Maximum Identity Confi-Conficomposition dential residual Mark (X) dential dential (1) (2) (3) (4) (5) (6)(z) % % % % % % % % % % % Mark (X) this box if you attach a continuation sheet. 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 Method 2 (other source) obtained from CAS Inventory Expert Service must be submitted as an attachment to this notice) d. The currently correct Chemical Abstracts (CA) name for the polymer that is consistent with TSCA Inventory listings for similar polymers. e. Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained. Mark(X) this box if you attach a continuation sheet. FORM EPA 7710-25 (Rev. 5-95) Page 5

Part I -- GENERAL INFORMATION -- Continued

Part I — GENERAL INFORMATION Contin	nued		
Section B - CHEMICAL IDENTITY INFORMATION - Continued			
 Impurities (a) Identify each impurity that may be reasonably anticipated to be present in the chemical substance as manufaction 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 and CAS Registry Number (a)	Maximum percent	Conf denti	
(d)	(b)		
	%	igwdap	
	%		
	%		
	%		
	%		
	%		_
	%		_
Mark (X) this box if you attach a continuation sheet.		H	_
4. Synonyms - Enter any chemical synonyms for the new chemical substance identified in subsection 1 or	2.	Confi	
		denti	aı
Mark (V) this havifares at a little in the			
Mark (X) this box if you attach a continuation sheet. 5. Trade identification — List trade names for the new chemical substance identified in subsection 1 or 2.			
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2			
Mark (X) this box if you attach a continuation sheet.			
6. Generic chemical name If you claim chemical identity as confidential, you must provide a generic chemical identity of the new chemical substance to the Refer to the TSCA Chemical Substance Inventory, 1985 Edition, Appendix B f generic names.	ne maximum extent possible.		
Mark (X) this box if you attach a continuation sheet.			
 Byproducts Describe any byproducts resulting from the manufacture, processing, use, or disposal of the Registry Number if available. 	he new chemical substance. Provide t	he CAS	3
Byproduct (1)	CAS Registry Number (2)	Conf dentia	
		-	_
Mark (X) this box if you attach a continuation sheet.			_

	Part I GENERAI	L IN	FORN	ЛАТІО	N	Conti	nue	·d					
Section C PRO	DUCTION, IMPORT, AND	USE	INFO	RMATI(ON:								+
	Mark (X) the "Confidentia	al" bo	x next to a	any item y	ou clai	m as conf	identi	ial.					+
maximum product	ne Estimate the maximum prod tion volume for any consecutive Il substance basis. For a Low Volun kg/yr, specify the volume and mark	luctio 12-ma me Exa	on volum onth peri	ne during riod durin	the fing the	rst 12 mo first thre	onths e yea	of prod ars of pro	oduction of the contract of th	on. Es	timates s	should	be or
Maximum first 12-m (100% new chemi	nonth production (kg/yr) ical substance basis)			Ma (ximu 100%	m 12-mo new cher	nth p mical	roducti I substa	on (kg nce bas	/yr) sis)	Confi- dential	Bindi Optio Mark	on
claim as confidential a. (1) — Describe each (2) — Mark (X) this c (3) — Indicate your (4) — Estimate the p (5) — Mark (X) this c (6) — Estimate the p as manufactur (7) — Mark (X) this c (8) — Indicate % of p (X) to indicate	You must make separate confidentiality or, the formulation of the new subtlemental category, the formulation of the new subtlement of the new column if entry in column (1) is confident of total production for the first column if entry in column (4) is confident of the new substance as formulated for commercial purposes at sites a column if entry in column (6) is confident of the column if entry in column (7) is confident of the column if entry in column (8) is confident willingness to have the use typicolumn if entry(ies) in column (8) is (1).	chemi identia provid st three identia ulated under identia ed "use	e, and other ical substrated in columers ded in columers in mixtur your cont al business e" sectors.	ance by fur ss informate umn (1) bir evoted to ess informate res, suspen trol associa ss informate . Mark mo	nction nction (C nding. each cat tion (C nsions, ated wi tion (C ore than	and applications and applications applicatio	(X) the ication use. Is, soluategor if app	e "Confi n. utions, or ry of use.	r gels	" Box ne	luction vo	olume item yo	ш
(by function and applica	ry of use (1) ation i.e. a dispersive dye for	Binding Option Mark (x)	Production %	CBI	% in Form-	СВІ	% of	f substa	nce exp (8)	ected per	use	СВІ	
finishing polyester fibe	rs)	(2)	(3)	(4)	(5)	ulation (6)	(7)	Site- limited	Con-* sumer	Indus- trial	- Com- mercial	Binding Option	g 1 (9)
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				%		%							\dagger
consumer products as	d a "consumer" use, please provice er products. In addition include nd describe the chemical reaction if you attach a continuation sheet.	estim	nates of tl	he concen	ntratio	on of the i	new o	chemica	al subst	tance a	s expect	emical ed in	
b. Generic use description	If you claim any category of use desc category. Read the Instructions Mar	criptio nual f	n in subs or examp	ection 2a a les of gene	s confi ric us	idential, e e descripti	nter a ons.	generic	descrip	tion of t	that		
uescription													
- -													
	you attach a continuation sheet.	able	- S- soimaile	-Carry ha	- 1 -								
or other hillorination w	 Include in the notice a copy of reaso which will be provided to any person s for the safe handling, transport, use 	who i	is reasona	ably likely t	to he e	ot begonize	thic o	ou hetan o		dina ne	atastires	I Opt	ding tion rk (x)
Mark (X) this box if you	ou attach hazard information.	., or a	sposar or	ine new s	ubstar	ice. List ii	n part	III hazai	rd intor	mation	you inclu	ıde.	

Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Mark (X) the "Confidential" box next to any item you Section A - INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER claim as confidential. 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 Confi a. Identity - Enter the identity of the site at which the operation will occur. dential Site address (number and street) City, County, State, ZIP Code # of site 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 you attach a continuation sheet. Type -Mark (X) Manufacturing Processing Use c. Amount and Duration - Complete 1 or 2 as appropriate Maximum kg/batch (100 % new chemical Hours/batch Batches/year substance) 1. Batch Maximum kg/day (100 % new chemical Hours/day Days/year substance) 2. Continuous 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.). Provide the identity, the approximate weight (by kg/day or kg/batch on an 100% new chemical substance basis), and entry point of all starting materials and feedstocks (including reactants, solvents, and 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 intermittant releases, to the environment of the new chemical substance.

Mark (X) this box if you attach a continuation sheet.

	Part II	- HUM	AN	EXP	OSURI	ANI	O ENV	/IRONMENT	TAL R	ELE	EASE	Cor	ıtinued		
								HE SUBMITTER							
(1) - D (2) - M (3) - D (4) and (5) - Ir a (7) - M (8) - E (9) - M (10) and	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 (e.g. 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 you 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 (EBI Protective Equipment) (CBI Protective Equipment)														
W			_	Prot		pment/	Binding Option	Physical form(s) (e.g.solid:powder)	Binding Option	CBI	# of Workers	СВІ			СВІ
	(1)		(2)		(3)		Mark (x) (4)	substance	Mark (x)		Exposed (8)	(n)	Hrs/day (10)		(12)
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(3)		(4)	(5)	(6)	(7)	(6)	(9)	(10)	(11)	(12)
M	lark (X) this box	if you atta	ach a	continu	ation sheet	t.							•		
 Mark (X) this box if you attach a continuation sheet. 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. Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3). Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch). Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI). Identify the media of release i.e. stack air, fugitive air (optional-see Instruction Manual), surface water, on-site or off-site land or incineration, POTW, or other (please specify) to which the new substance will be released from that release point. a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day). Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI). Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct dischargers or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES * is confidential business information (CBI). 												on, eat			
Release Vumber	Amount of ne relea		ce ·	CBI	Media of release	Control	technolo	gy and efficiency (yo	ou may w	vish to			n efficiency	data)	CBI
(1)	(2a)	(2b)		(3)	e.g. stack air (4)			(5a)			Bindin Mark ((5b)	,	(6)
											<u> </u>	+	<u>.</u>		+
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												-	···		+
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7) Mark lestinatio eleases to	on(s) of	POTW pr	ovide	e name(s	s) below:	CBI		gable 🔲 Oth rway	ner - Spec	ify	-	provi	de NPDES	S #	¢ві
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Mark (X) this box if you attach a continuation sheet.

Part II -- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- Continued Section B -- INDUSTRIAL SITES CONTROLLED BY OTHERS 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. Operation Description - To claim information in this section as confidential, circle or bracket 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, 55gallon drums, rail cars, tank trucks, etc). On the diagram, identify by letter and briefly describe each worker activity. (2) -- 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 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. (4) Please enter the # of sites (remember to identify the locations of these sites on a continuation sheet): # of sites Mark (X) this box if you attach a continuation sheet. 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 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 Act- ivity	# of Workers Exposed	СВІ	Dura of Expo		CBI	Protective Equip. / Engineering Controls/ Physical Form and % new substance	% in Form- ulation	CBI	Release Number		ance	СВІ	Media of Release & Control Technology	
(1)	(2)	(3)	(4a)	(4b)	(5)	(6)	(7)	(8)	(9)	(10a)	(10ь)	(11)	(12)	(13)
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(14) 1	Byproducts	3:												(15)

OPTIONAL POLLUTION PREVENTION INFORMATION

To claim information in this section as confidential circle or bracket 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, 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 this information to assess overall net reductions in toxicity or environmental releases and exposures, not the shifting of risks to other environmental media or non-environmental 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 the revised Instructions Manual that includes a Pollution Prevention 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 applications; 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.	
Mark (X) this box if you attach a continuation sheet.	
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Part III -- LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form and 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 the attachments. In the column below, enter the inclusive page numbers of each attachment.

Mark (X) the "Confidential" box next to any attachment name 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 page number(s)	Confi- dentia	
Material Safety Data Sheet (MSDS)			
Mark (X) this box if you attach a continuation sheet. Enter the attachment name and number.	· · · · · · · · · · · · · · · · · · ·		

PHYSICAL AND 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. 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.

Property (a)	Mark (X) if provided	number	Value	Measured or Estimate	dential
(a)	ļ ·	(b)	(c)	(M or E)	Mark (X) (d)
Physical state of neat substance			(s) (l) (g)		
Vapor pressure			Torr		
Density/relative density			g/cm3		
Solubility @ Temperature					
Solvent			g/L		
Solubility in water @ Temperature°C			°C		
Melting temperature			°C		
Boiling/sublimation temperature @torr pressure					
Spectra					
Dissociation constant					
Particle size distribution					
Octanol/water partition coefficient					
Henry's Law constant					
Volitalization from water					
Volitalization from soil					
pH @ concentration					
Flammability					
Explodability					
Adsorption/coefficient					
Other - Specify					i