

				Form App		070-0012 and 2070-0038			
U.S. ENVIRONM	ENTAL PROTECTI	ON AGEN	CY		AGE	ENCY USE ONLY			
Salten ordine	P	REMANUF	ACTUR	E	Date of receipt:				
COENTY COENTY	۸	NOTI	CE						
EP/	FOR NI	EW CHEMICA	AL SUBST	ANCES					
When If sending by Courier: Office of Pollution Prevention and Toxics Office of				by US Mail: revention and Toxics	0 1 .	· B (N I			
completed, Docume	nt Control Office (7407M) 1201 Constitution Ave NW	Docume	ent Control O		Submiss	sion Report Number			
WASHIN	GTON, D.C. 20460 Numbers: 202-564-8930/8940		NGTON, D.C.						
Total Number of Pag		User Fee Pay	ment ID N	lumber		TS Number			
18									
				INSTRUCTIONS					
						estimates if you do not have actual data. from the Toxic Substances Control Act			
(TSCA) Information Serv	vice by calling 202-554-1404, or	faxing 202-554-56	603).	· ·		nerated. Remember, your user fee ID number			
	ur corresponding fee remittance					merated. Nemember, your user ree ib number			
Part I – GENERAL IN	FORMATION		TEST D	ATA AND OTHER D	DATA				
You must provide the cur	rently correct Chemical Abs	tracts (CA)				sion or control and to provide a			
	al substance, even if you cla ou may authorize another p					certainable by you, if these data are nanufacture, processing, distribution in			
submit chemical identity i	nformátion for you, but you	submission				ance. Standard literature citations may omplete test data (written in English),			
	the review will not begin unt A letter in support of your s		not summ	aries of data, must be	submitted if they do no	t appear in the open literature. You			
should reference your TS	user fee identification num	ber. For all				ance or on an analog. Also, the characterized. Following are examples			
Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data; if you claimed any				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).					
information as confidential submitted.	al, an original sanitized copy	must also be	g/20.50 C	i the Fremanulacture i	Notification Rule (40 Ci	- K Fait 120).			
	POSURE AND ENVIROR	IMENITAL		Test Data (C	heck Below any inclu	uded in this notice)			
RELEASE	OSURE AND ENVIRO	NIVIEN I AL		•		, 1			
	facture, processing, or use ections A and B of this notice			Environmental fate d	ata	Other Data			
the sections as needed.		o, roproduce		Health effects data		Risk Assessments			
Part III - LIST OF AT	TACHMENTS			Environmental effects data Structure/activity relationship					
	attach additional sheets if the a guestion fully. Label each		Physical/Chemical Properties (A physical and chemical properties workshee						
sheet with the correspond	ding section heading. In Par a or other data and any opt	t III, list these		located on the last	page of this form.)				
information included in th		IUIIai		Test data not in the p	not in the possession or control of the submitter				
OPTIONAL INFORMA	ATION			TVD	E OF NOTICE (Check	Only One)			
You may include any info	rmation that you want EPA				•	Only One)			
been provided for you to	ance. On page 11 of this for describe pollution preventio	n and		PMN (Premanufactu	re Notice)				
	may have regarding the ne ded throughout this form for			SNUN (Significant No	ew Use Notice)				
make in this section, such	to be bound to certain state า as use, production volume	, protective		TMEA (Test Marketin	ng Exemption Applicati	on)			
accompany the developn	ion is to reduce delays that nent of consent orders or Si	gnificant New		LVE (Low Volume Ex	xemption) @ 40 CFR 7	23.50(c)(1)			
prohibit the submitter fror	oinding" box in a PMN does in later deviating from the in it reported in the form; howe	formation		LOREX (Low Release	e/Low Exposure Exem	ption) @ 40 CFR 723.50(c)(2)			
case of exemption applic	ations (such as TMEA, LVE led in such notifications is b	, LOREX)		LVE Modification					
submitter when the Agen	cy approves the exemption	application,		LOREX Modification					
LVE.	n volume "binding" box is c	nosen in a		Mock Submission					
CONFIDENTIALITY					g Letter of Support				
assert a claim on the form	nation in this notice as confi n, mark (X) the confidential	box next to		, , ,					
	claim as confidential. To assoracket the information you			IS THIS A CONSOLI	, ,	and the state of t			
confidential. If you claim	information in the notices as sanitized version of the notice	confidential,		# of chemicals or p. 3).	polymers (Prenotice C	ommunication # required, enter # on			
attachments). For additio	nal instructions on claiming		$\overline{\Box}$	Mark (X) if any inform	nation in this notice is o	claimed as confidential.			
as confidential, read the I	nstructions Manual.			Mark (X) if any inform	nation in this notice is o	ciaimed as confidential.			



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The public reporting and recordkeeping burden for this collection of information is estimated to average 93 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed EPA Form 7710-25 to this address.

**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:

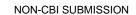
- 1. The company named in Part I, section A, subsection 1a of this notice form intends to manufacture, import or process for a commercial purpose, other than in small quantities solely for research and development, the substance identified in Part I, Section B.
- 2. All information provided in this notice 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:**

	f you are submitting a PMN, Intermediate PMN, Consolidated PMN, or SNUN, check the following <b>user fee</b> ertification statement that applies:								
	The Company nar	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 <b>Low Volume Exemption (LVE)</b> application in accordance with 40 CFR 723.50(c)(1) or a <b>Low Release and Low Exposure Exemption (LoRex)</b> application in accordance with 40 CFR 723.50(c)(2), check the following certification statements:									
	The manufacturer submitting this notice intends to manufacture or import the 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 manufacture	er is familiar with the terms of this section and will comply w	ith those to	erms; and					
	The new chemica	al substance for which the notice is submitted meets all app	plicable ex	emption 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.									
Signature and title of Authorized Official (Original Signature Required)  Date									



Secti	on A	A – SUBMITTER IDE		NOITA			NFORMATION			
1a.		Ma Person Submittin				kt to any	subsection you clain	n as co	nfidential	Confidential
	of Au	thorized Official	(first)	(111 0.0	,, <u>,                                  </u>		(last)			
Positio	on									1
Compa	any									1 _
Mailing	g Add	Iress (number & street)								┧ 凵
City		· · · · · · · · · · · · · · · · · · ·			State		Postal Code			
email										
b.		Agent (if Applicat	ole)							Confidential
Name	of Au	uthorized Official	(first)				(last)			
Positio	on									
Compa	any									1
Mailing	g Add	Iress (number & street)								
City					State		Postal Code			
e-mail					•	Teleph	one e area code)			
C.		Joint Submitter (i	f applica	ıble)		(IIIOIGG	area code)			Confidential
If you	are sı	ubmitting this notice as p	art of a join	t submiss	ion, mark	(X)				
Name	of Au	ıthorized Official	(first)				(last)			
Positio	on									
Compa	any								] <sub>—</sub>	
Mailing	g Add	Iress (number & street)								] <u></u>
City					State		Postal Code			
e-mail						Telep (inclu	hone de area code)			1
2.		Technical Contac	t (in U.S	.)						Confidential
Name	of Au	thorized Official	(first)				(last)			
Positio	on									1
Compa	any									1 _
Mailing	g Add	Iress (number & street)								<b></b>
City			L		State		Postal Code			1
e-mail						Teleph	one e area code)			
	If yo	ou have had a prenotice of	communica	tion (PC)	concerning	_	e area code)		Mark (X) if none	Confidential
3.		notice and EPA assigner or the number.	d a PC Nur	nber to the	e notice,					
		ou previously submitted a							Mark (X) if none	Confidential
4.	submitted a PMN for this substance enter the PMN number									
	assigned by EPA (i.e. withdrawn or incomplete).  If you have submitted a notice of Bona fide intent to  Mark (X) if none						Confidential			
5.	mar	nufacture or import for the his notice, enter the notice	e chemical	substance	e covered					
6.			,		Type	of Noti	ce – Mark (X)			
1	Man	nufacture Only		2. Imp	oort Only			3.	Roth	
1.	Bino	ding Option			iding Optio	n		3.	Both	





Part I – GE	NERAL INFORM	ATION Con	tinued				
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 the name, company, and address of that person in a co	ntinuation sheet.	em 1 or 2), mark	(X) the box at the right. Ide	entify			
<ol> <li>Class 1 or 2 chemical substances (for definitions of 2 substances, see the Instructions Manual)</li> </ol>	class 1 and class	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	or the substance)						
c. Please identify which method you used to develop of		chemical identity		t e	one).		
Method 1 (CAS Inventory Expert Service - a copy of Identification report obtained from the CAS Inventor Services must be submitted as an attachment to thi	y Expert	IES Order Number	Method (Other Source)	2			
Enter Attachment filename for Part I, Section B, 1. c.							
d. Molecular formula							
e. For a class 1 substance, provide a complete and co	rrect chemical structu	re diagram. For a	class 2 substance, provide	e a correct			
representative or partial chemical structure diagram	, as complete as can t	e kilowii, ii one c	an be reasonably ascertain	ileu.			
Enter Attachment filename for Part I, Section B, 1. e.		ĺ					



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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).						
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 filonome for Part I. Section P. 1 o. (2)						
Enter Attachment filename for Part I, Section B, 1. e. (2)						
e. (3) Indicate the range of composition and the typical composition (when	е арргорпате).					
Enter Attachment filename for Part I. Section B. 1. e. (3)						



		Par	t I GENERAL IN	NFORMA		Con	tinued				
			ITY INFORMATION -		ed					0 51	
			see the Instructions Manua of the lowest molecular we		tion of the po	lvmer v	ou intend to	manufactu	re.	Confide	ntıal
Indicate maximum	weight pe	ercent of I	low molecular weight speci molecular weight of that co	ies (not inclu							
		Des	scribe the methods of meas	surement or t	he basis for	our es	timates:				
GPC		Other	(Specify Below)								
Specify Other:											
(i) lowest number av weigh	•	lecular	(ii) maximum weight we	% below 500 eight:	molecular	(iii)	) maximum w	eight % be weight		00 molecu	lar
			I, Section B, 2. a.								
<ul> <li>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</li> <li>(1) - Provide the specific chemical name and CAS Registry Number (if a number exists) of each monomer or other reactant used in the manufacture of the polymer.</li> <li>(2) - Mark (X) this column if entry in column (1) is confidential.</li> <li>(3) - Indicate the typical weight percent of each monomer or other reactant in the polymer.</li> <li>(4) - Choose "yes" from drop down menu if you want a monomer or other reactant used at two weight percent or less to be listed as part of the polymer description on the TSCA Chemical Substance Inventory.</li> <li>(5) - Mark (X) this column if entries in columns (3) and (4) are confidential.</li> <li>(6) - Indicate the maximum weight percent of each monomer or other reactant that may be present as a residual in the polymer as manufactured for commercial purposes.</li> <li>(7) - Mark (X) this column if entry in column (6) is confidential.</li> </ul>											
			actant specific chemical na	ame		СВІ	Typical composition	Include in identity	СВІ	Max residual	СВІ
			(1)			( <b>2</b> )	(3)	( <b>4</b> )	( <b>5</b> )	( <b>6</b> )	(7)
CAS Re	gistry Num	nber ( <b>1</b> )									
CAS Pa	gistry Num	pher (1)									
0.0 10	gody (van	1001 (1)									
CAS Re	gistry Num	nber ( <b>1</b> )									
CAS Re	gistry Num	nber (1)									
	-										
CAS Re	gistry Num	nber ( <b>1</b> )									
Mark (X) this box if the	e data con	itinues or	the next page.								



PMN Page 5a

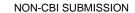
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c. Please identify which method you used to develop or obtain (check one).	the specified o	hemical identity information reported in this notice	СВІ
Method 1 (CAS Inventory Expert Service			
- a copy of the identification report obtained from CAS Inventory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



rivin rage				
Part I GENERAL INFORMA	TION Con	tinued		
Section B CHEMICAL IDENTITY INFORMATION Continued				
3. Impurities  (a) - Identify each impurity that may be reasonably anticipated to be present purpose. Provide the CAS Registry Number if available. If there are unic (b) - Estimate the maximum weight % of each impurity. If there are unidentification.	dentified impurities	, enter "unidentified.	"	rcial
Impurity (a)		CAS Registry Number (a)	Maximum Percent % (b)	Confi- dential
		(a)	(b)	
Mark (X) this box if the data continues on the next page.				
Enter Attachment filename for Part I, Section B, 3.				
4. Synonyms - Enter any chemical synonyms for the new chemical identified in subs	section 1 or 2.			
Enter Attachment filename for Part I, Section B, 4.				
5. Trade identification - List trade names for the new chemical substance identified i	n subsection 1 or 2	2.		
Enter Attachment filename for Part I, Section B, 5.				<u> L.l.</u>
<ol> <li>Generic chemical name - If you claim chemical identify as confidential, you must period specific chemical identity of the new chemical substance</li> </ol>				
Substance Inventory, 1985 Edition, Appendix B for guida				
Enter Attachment filename for Part I, Section B, 6.				
7. Byproducts - Describe any byproducts resulting from the manufacture, processing	g, use, or disposal	of the new chemical	substance. Prov	ride the
CAS Registry Number if available.		CAS Re	egistry Number	Confi-
Byproduct (1)		0/10/110	(2)	dential
		1		Ī

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





Section C - PRODUCTION, IMPORT, AND USE INFORMATION:  The information on this page refers to consolitated chemical number(s):  1	PMIN Page 7												
The information on this page refers to consolidated chemical number(s):  1. Production volume a Estimate the maximum production octions during the first 12 months of production. Also estimate the maximum production volume from 12 months of production. Also estimate the maximum production volume from 2 months of production. Also estimates the maximum production volume from 2 months of production. Also estimates the maximum production volume from 2 months of production. Also estimates the control of the volume and mark (x) in the binding box. If granting the first three years of production results as the 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 granting you are bound to this volume.  Maximum first 12-month production (kg/yr) (100% new chemical substance basis)  Confidential  Enter Attachment filename for Part I, Section C, 1  2. Use information - You must make separate confidentially claims for the description of the category of use. The percent of production volume devoted to confidentially. The formation of the new substance, and other use information (CBI).  (2) —Mark (X) this column if entry option (1) is confidential business information (CBI).  (3) -incicate your willingness to have the information provided in column (1) binding (2) —Samme the percent of total production of the first first exist with each category of use.  (3) —Samme the percent of the new substance as formulated in mixtures, suspensions, emissions, solutions, or gels as manufactured for commercial purposes at sites under your colornal production (2B).  (3) —Mark (X) this column if entry of the first first exist of the first first exist with each category of us	Part I GENERAL INFORMATION Continued												
Neroduction volume Estimate the maximum production volume during the first 12 months of production. Also estimates the maximum production volume for any consecutive 12-month period during the first 12 month production. Also estimates 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-DOM keylr, specify the volume and mark (x) in the binding box. If granted, you are bound to frie volume.    Maximum First 12-month production (kg)yr)	Section C PRODUCTION, IMPORT, AND USE INFORMATION:												
1. Production volume — Estimate the maximum production volume during the first 12 months of production. Also estimate the maximum production volume to any consecutive 12-month production (Fig. 12 months) and production volume than 10,000 kg/yr, specify the volume and mark (p.) in the binding box. If granted, you are board to this volume.  Maximum first 12-month production (kg/yr) (100% new chemical substance basis)  Maximum first 12-month production (kg/yr) (100% new chemical substance basis)  Enter Attachment filename for Part I. Section C. 1.  2. Use information — You must make separate confidentiality dains for the description of the category of use, the percent of production of the maximum for the substance, and other use information of the rest volutions and maximum for the production (kg/yr) (100% new chemical substance).  3. (1)—Describe each intended category of use of the new chemical substance by function and application.  2. (3)—Indicate your willingness to have the information provided in column (1) binding. (4)—Estimate the percent of lotal production or the first three years devoted to each category of use.  (3)—Mark (X) this column if entry or column (4) is confidentable business information (CBI).  (3)—Indicate your willingness to have the information provided in column (1) binding.  (3)—Mark (X) this column if entry in column (6) is confidentable business information (CBI).  (3)—Mark (X) this column if entry in column (6) is confidentable business information (CBI).  (3)—Mark (X) this column if entry in column (6) is confidentable business information (CBI).  (3)—Mark (X) this column if entry in column (6) is confidentable business information (CBI).  (3)—Mark (X) this column if entry in column (6) is confidentable business information (CBI).  (3)—Mark (X) this box if the data continues on the next page.  1. 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 sub	The information on this page refers to consolidated	chemic	cal numbe	r(s):	1	2		3	4		5	6	
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)  Confidential  Binding Option (Monk (X))  Enter Attachment filename for Part I, Section C, 1.  Enter Attachment filename for Part I, Section C, 1.  Cuse information — You must make separate confidentially 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.  2. Use Information — You must make separate confidentially 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.  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 (6) is confidential business information (CBI).  6. — Category of use.  7. — Mark (X) this column if entry in column (6) is confidential business information (CBI).  8. — Indicate we 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 business information (CBI).  (9) — Mark (X) this column if entry in column (8) is (are) confidential substance expected per use.  Category of use.  1	<ol> <li>Production volume Estimate the maximum production volume for any consecutive 12-month period during For a Low Volume Exemption application, if you chem.</li> </ol>	duction v g the firs noose to	volume dur st three ye have you	ring the first ars of produce re-	st 12 moduction.	onths of pro Estimates	oductior should	n. Also e be on 1	estimate 100% ne	w chem	ical sul	bstance	basis.
2. Use Information — You must make separate confidentially claims for the description of the category of use, the percent of production volume devoted to each clategory, 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 gets 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) —Mark (X) this column if entry(les) in column (8) is confidential business information (CBI).  (9) —Mark (X) this column if entry(les) in column (8) is (are) confidential business information (CBI).  (2) —Binding Prod CBI Form Unit (CBI) — White the confidential business information (CBI).  (9) —Mark (X) this boot if the data continues on the next page.  (9) —Mark (X) this boot if the data continues on the next page.  (9) —Mark (X) this boot if the data continues on the next page.  Enter Attachment filename for Part I, Section C, 2. b.  (Balk (X) this boot if the data continues on the next page.  Enter Attachment filename for Part I, Section C, 2. b.  (Balk (X) to be exposed to this substance I not the incomment of the concentration of the new chemical substance as expected in consumer product.	Maximum first 12-month production (kg/yr)		Maximun	12-mont	h produ			С	onfident	tial			
2. Use Information — You must make separate confidentially claims for the description of the category of use, the percent of production volume devoted to each clategory, 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 gets 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) —Mark (X) this column if entry(les) in column (8) is confidential business information (CBI).  (9) —Mark (X) this column if entry(les) in column (8) is (are) confidential business information (CBI).  (2) —Binding Prod CBI Form Unit (CBI) — White the confidential business information (CBI).  (9) —Mark (X) this boot if the data continues on the next page.  (9) —Mark (X) this boot if the data continues on the next page.  (9) —Mark (X) this boot if the data continues on the next page.  Enter Attachment filename for Part I, Section C, 2. b.  (Balk (X) this boot if the data continues on the next page.  Enter Attachment filename for Part I, Section C, 2. b.  (Balk (X) to be exposed to this substance I not the incomment of the concentration of the new chemical substance as expected in consumer product.													
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Category of use (1) (by function and application i.e. a dispersive dye for finishing polyester fibers)  CBI Mark (X)	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, 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.												
* 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.  * 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)** (4)** (5)** (6)** (7)** Initial consumer products are detailed description of the use(s) of this chemical substance in consumer products and describe the 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)** (5)** (6)** (7)** Initial consumer products and describe the 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)** (5)** (6)** (7)** Initial consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products and describe the chemical substance as expected in consumer products.  **Barriar Attachment file name for Part I, Section C, 2, b.**  **Enter Attachment file name for Part I, Section C, 2, b.**  **Enter Attachment file name for Part I, Section C,	Category of use (1)		Binding	Prod		% in		% of	(8)				СВІ
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  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  Binding Option		(2)			(5)		(7)			Industrial			(9)
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  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  Binding Option													
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Enter Attachment filename for Part I, Section C, 2. b.  CBI  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  Binding Option	,		•										]
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  Binding Option							ential, er	nter a g	eneric d	escriptio	on of th	at categ	ory.
data sheet, or other information which will be provided to any person who is reasonably likely to be exposed to this substance Binding Option	Enter Attachment filename for Part I, Section	C, 2. b.								CE	81		
hazard information you include.  Mark (X) this box if you attach hazard information.	<ol> <li>Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the sa hazard information you include.</li> </ol>	of reason d to any afe hand	person wl	no is reaso	onably li	kely to be	expose	d to this	s substa	ial safet nce	у	_	•



NON-CBI SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE								
Section A INDUSTRIAL	SITES CO	ONTROLLED BY THE SUBI	MITTER	Ma an	ark (X) the y item yo	e "Confidential" bo u claim as confide	x nex	xt to
		consolidated chemical number(s	,		3	4 5		6
you control. Importers do not lead requirements if there are furth instructions manual  1. Operation description	nave to con er industria	ufacture, processing, or use open plete this section for operations I processing or use operations a	s outside the U.S.; I	however, y	ou may	still have repor	ting e	confi-
a. Identity Enter the id	entity of the	e site at which the operation will	occur.				de	ential
Name Site address (number and								
street)								
City			County					
State			ZIP code					
sites on a continuation sheet,	and if any o	han one site, enter the number of the sites have significantly diff puested in this section for those	erent production ra	ates or	1			
Mark (X) this box if the	data continue	es on the next page.						
b. Type Mark (X)	ufacturing	Processing		Use				
c. Amount and Duration	Complete	e 1 or 2 as appropriate						onfi- ential
1. Batch		Maximum kg/batch (100% new chemical substance)	Hours/	Batches/year				
2. Continuous		Maximum kg/day (100% new chemical substance)	Hours/day Days/year					
d. Process description			Mark (X) to indicate have your process o					
pails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note frequency) (3) Identify by number the	, rail car, tan the approxim ocks (includir uency if not u te points of re	steps and chemical conversions. In k truck, etc.). ate weight (by kg/day or kg/batch ong reactants, solvents, catalysts, etc used daily or per batch.). elease, including small or intermitter the step, assign a second release nu	clude interim storage  n a 100% new chemic  c), and of all products  nt releases, to the env	ical substands, recycle str	ce basis) reams, ar	, and entry point ond wastes. Include	of all see clea	starting uning
		, , , , , , , , , , , , , , , , , , ,						



PMN Page 8a

NON-CBI SUBMISSION

Diagram of the major unit appration stans					
Diagram of the major unit operation steps.					
<del>_</del>					
Enter Attachment filename for Part II, Section A, 1. d.					



PMN2009P9			PMN F	Pane 9					NON-CB	I SUBMISSI	ON
	art II	HUMAN EXPOSURE A			AL REL	EAS	SE Co	ntin	ued		
		SITES CONTROLLED B									
The information on pages	9 and	d 9a refer to consolidated chem	nical num	ber(s):	1	2	<b>3</b>		4	5	6
The information on pages 9 and 9a refer to consolidated chemical number(s):  1 2 3 4 5 6  Coccupational Exposure You must make separate confidentiality claims for the description of worker activity, physical form of the new chemical substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as confidential.  (1) Describe the activities (i.e. bag dumping, tote filling, unloading drums, sampling, cleaning, etc.) in which workers may be exposed to the substance.  (2) Mark (X) this column if entry in column (1) is confidential business information (CBI).  (3) Describe any protective equipment and engineering controls used to protect workers.  (4) and (6) Indicate your willingness to have the information provided in column (3) or (5) binding.  (5) Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new chemical substance (if part of a mixture) at the time of exposure.  (7) Mark (X) this column if entries in columns (3) and (5) are confidential business information (CBI).  (8) Estimate the maximum number of workers involved in each activity for all sites combined.  (9) Mark (X) this column if entry in column (8) is confidential business information (CBI).  (10) and (11) 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		rif entries in columns (10) and (1:  Protective Equipment/	Binding	fidential busines  Physical  form(s)	Binding		# of		Maximum	СВІ	
(i.e., bag dumping, filling drums)	CBI	Engineering Controls	Option Mark (X)	& % new substance	Option Mark (X)	CBI	Exposed	СВІ	Hrs/Day	Days/Yr	(12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	. ,

EPA FORM 7710-25 (Rev. 6-09)

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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- 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-sité or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
  - (5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
  - (6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
  - (7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

Release Number	Amount Substance	of New Released	СВІ	Medium of release e.g. Stack air	Con	trol technology a optionally a	and efficient	d efficiency (you may wish to ach efficiency data)			
(1)	(2a)	(2b)	(3)	(4)		(5a)		Binding Mark (X)	(5b)	(6)	
				on the next page.							
(7) Mark			of releas	ses to water.				NPDES	S#	CBI	
	POTWpro name(s)	vide									
	Navigable v - provide na	waterway- ame(s)									
	OtherSpe	cify									
	Enter Attachm	ent filename	for Part II,	Section A.							



NON-CBI SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE – Continued									
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS				_					
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS  The information on pages 10 and 10a refer to consolidated chemical number(s):  Complete section B for typical processing or use operations involving the new chemical complete this section for operations outside the U.S.; however, you must report any procomplete a separate section B for each type of processing, or use operation involving to more than one site describe the typical operation common to these sites. Identify additional to a processing or use operation involving to more than one site describe the typical operation common to these sites. Identify additional to a processing or use operation involving to more than one site describe the typical operation common to these sites. Identify additional to a processing or use operation involving the processing of the second or use of the top of the	cessing or use activities the new chemical substants on a continual, bracket (e.g. {}) the new ginterim storage and by letter and briefly dee approximate weight (letants, solvents and cated daily or per batch).	u do not control. In es after import. Seitance. If the same ation sheet. e specific informatransport containerscribe each worke by kg/day or kg/bautalysts, etc) and all ding small or interior.	e the Instructions operation is perfection that you class (specify - e.g. r activity. tch, on an 100% Il products, recycles	s Manual. formed at aim as 5 gallon new					
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 hottom of page 10a									



N2009P10A PMN Page 10a

#### 2. Worker Exposure/Environmental Release

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

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



NON-CBI SUBMISSION

## OPTIONAL POLLUTION PREVENTION INFORMATION

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

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

Describe the expected net benefits, such as

- (1) an overall reduction in risk to human health or the environment:
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks;
- (4) a reduction in potential toxicity, human exposure and/or environmental release; or

<ul><li>(5) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall health or the environment.</li></ul>	risk to human
Information provided in this section will be taken into consideration during the review of this substance. See PMN Instrand Pollution Prevention Guidance manual for guidance and examples.	uctions Manual
·	
Enter Attachment filename for Pollution Prevention Page 11.	



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## **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	 СВІ
	Mark (X) this box if the data continues on the n	evt nage		



MN2009P13 PMN Page 1

Fivily Fage 15										
				L PROPER			<del> </del>	7.		
The information on tl	his page refers to ch	emical r	number(s):	1	2	3	4	5 6		
To assist EPA's review of notice. Identify the proper property is claimed as co provided. These measure formulations should be so you do so, as it will simplify supplement to your submers.	rty measured, the value of infidential. Give the attacted properties should be for noted (% PMN substantify the review and ensure	of the prophement nument nument nument or the near the in).  It is that confirmed that is the prophement of the that confirmed in).	perty, the units mber (found of at (100% pure) You are not re fidential inform	s in which the p n page 12) in c chemical subsequired to subration is proper	property is recolumn (b). In the stance. Promit this workly protected in the stance is the stance of	neasured (as The physical perties that a ksheet; howe d. You should	s necessary state of the are measure ever, EPA	y), and whether or e neat substance ed for mixtures or strongly recomme	r not the should be ends that	
Prope (a)		Unit	Mark X if Provided	Attachment Number (b)		Value (c)		Measured or Estimate (M or E)	CBI Mark (X) (d)	
Physical state of neat	substance			(=)	(solid)	(liquid)	(gas)	(		
Vapor Pressure @ Temperature		°C					Torr			
Density/relative density	у						g/cm3			
Solubility										
@ Temperatu	ıre	°C					g/L			
Solve	ent									
Solubility in Water @ Temperature		°C					g/L			
Melting Temperature							°C			
Boiling / Sublimation temperature @		Torr					°C			
Spectra	,									
Dissociation constant										
Octanol / water partitio	on coefficient									
Henry's Law constant										
Volatilization from water	er									
Volatilization from soil										
pH@ concentration										
Flammability										
Explodability										
Adsorption / Coefficier	nt									
Other – Specify										
Other – Specify										•