

OMB NO. 20707-0038 Expires: 12/31/2025 NON-CBI SUBMISSION

U.S. ENVIRONMENT	TAL PROTECTION	AGENC'	Υ		AGENCY USE ONLY				
<b>EPA</b>	PREN FOR NEW C	MANUFA NOTIC HEMICAL	E		Date	of receipt:		reductions of a give,	
completed, send this form to:  Office of Pollu Document Co US EPA, 1201 WASHINGTON	completed, Document Control Office (7407M) Document Send this US EPA, 1201 Constitution Ave NW US E				Submission Report Number				
Total Number of Pages		Fee Paym	Payment ID Number TS Number						
49									
			GENERAL	INSTRUCTIONS					
<ul> <li>Before you complete this form (TSCA) Information Service by</li> <li>If a user fee has been remitted</li> </ul>	, you should read the "Instructions y calling 202-554-1404, or faxing 2	Manual for P 202-554-5603 indicate in the	remanufact ). boxes abo	ure Nolification" (the Instruve the TS-user fee identification	uctions Ma	enual is avaitable nber you have ge	from	ates if you do not have actual data, the Toxic Substances Control Act ed. Remember, your user fee ID number	
Part I – GENERAL INFOR	RMATION		TEST D	ATA AND OTHER (	ATA				
You must provide the currently Name of the new chemical suidentity as confidential. You m submit chemical identity inform will not be complete and the receives this information. A let should reference your TS user Section 5 Notice submissions submit an original notice incluinformation as confidential, an submitted.	bstance, even if you claim the ay authorize another person nation for you, but your subm eview will not begin until EPA tter in support of your submis of the identification number. For (paper or electronic) you must ding all test data; if you claim	e to ission sion or all st ed any	description related to commerce be submit not summand clean chemical of test date	n of all other data know the health and enviror a, use, or disposal of the ted for data in the opei arries of data, must be early identify whether to composition of the test	wn to or in mental e ne new c n scientifi submitte est data i ted mater a should	reasonably ascepted on the rehemical substance of iterature. Consider the substance on the substance of the substance of the submitted as the	manu ance ompl ot app tance chara	or control and to provide a inable by you, if these data are ifacture, processing, distribution in a Standard literature citations may lete test data (written in English), bear in the open literature. You a or on an analog. Also, the acterized. Following are examples ding to the requirements of lart 720).	
Part II – HUMAN EXPOSI RELEASE If there are several manufactu be described in Part II, section the sections as needed.	re, processing, or use operat	ions to		Test Data (C Environmental fate d Health effects data		elow any incli	uded	Other Data  Risk Assessments	
Part III – LIST OF ATTAC For paper submissions, attach enough space to answer a qui sheet with the corresponding s attachments, any test data or information included in the not	n additional sheets if there is restion fully. Label each continus tion fully. Label each continus tion heading. In Part III, list other data and any optional	nuation		Environmental effect	Properti	this form.)		Structure/activity relationships chemical properties worksheet is	
OPTIONAL INFORMATIO	N			TYP	E OF N	OTICE (Check	Onl	v One)	
You may include any informat evaluating the new substance			x	PMN (Premanufactu			5	,	
been provided for you to desc recycling information you may "Binding" boxes are included t	have regarding the new subs			SNUN (Significant N					
indicate your willingness to be make in this section, such as a				TMEA (Test Marketi	ng Exem	ption Applicati	ion)		
equipment The intention is accompany the development of Use Rules. Checking a "binding the company that is a company the development of the company that is a company to the company that is a company	of consent orders or Significa	nt New		LVE (Low Volume E	xemption	i) @ 40 CFR 7	23.5	0(c)(1)	
prohibit the submitter from late (except chemical identity) repo	er deviating from the informat	ion		LOREX (Low Release	se/Low E	xposure Exem	nptio	n) @ 40 CFR 723.50(c)(2)	
case of exemption applications certain information provided in	s (such as TMEA, LVE, LORI	EX)		LVE Modification					
submitter when the Agency ap especially if the production vol	proves the exemption applica	ation,		LOREX Modification					
LVE.	ame binding bex is enecon			Mock Submission					
CONFIDENTIALITY CLAI					a l a44-	of Conses			
You may claim any information assert a claim on the form, ma				Mark (X) if pending					
the information that you claim an attachment, circle or bracket	as confidential. To assert a c	laim in		IS THIS A CONSOL					
confidential. If you claim information you must also provide a sanition	nation in the notices as confic	dential,		# of chemicals or p. 3).	polymer	s (Prenotice C	omn	nunication # required, enter # on	
attachments). For additional in	structions on claiming inform			Mark (X) if any inform	nation in	this notice is o	claim	ed as confidential	



This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2070-0038). Responses to this collection of information are mandatory (40 CFR 720). An agency may not conduct or sponsor, and a person is not required to, respond to a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to average 93 hours per response. Send comments of 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 techinquesto the Director, Information Engagement 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.

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:** 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 Confidential misrepresentation is subject to criminal penalty pursuant to 18 USC 1001. Signature and title of Authorized Official (Original Date Signature Required)



Soct	ion A - SUBMITTER		CHARLES TO A STOCK OF THE PARTY	ERAL IN	<b>FORMATION</b>	100		A LANGUAGE		
Seci		Mark (X) the "Confid		xt to any s	ubsection you clair	n as co	nfidential			
1a.	Person Submit	ting Notice (in I	J.S.)					Confidential		
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b.	Agent (if Applie		4.0				TANKET EFF	Confidential		
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C.	Joint Submitte	r (if applicable)		(include	area code)	inn.	ed Jilli a grains	Confidential		
If you	are submitting this notice a	as part of a joint subr	nission, mark (	(X)				Difference of		
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C-IIIdi	If you have had a prenoti	as assemunication (f	OC) concorning	The state of the s	area code)		Mark (V) if nano	Confidential		
3.	this notice and EPA assignter the number.						Mark (X) if none	Cornidential		
	If you previously submitte				The second second		Mark (X) if none	Confidential		
4.	chemical substance cove exemption number assig submitted a PMN for this assigned by EPA (i.e. wit	ned by EPA. If you p substance enter the	reviously PMN number	on Division	Self or The Chira					
	If you have submitted a r	notice of Bona fide in	tent to				Mark (X) if none	Confidential		
5.	manufacture or import for by this notice, enter the n									
6.			Туре	of Notic	e – Mark (X)					
1.	Manufacture Only Binding Option	2.	Import Only Binding Optio	ın		3.	Both			



	Part I – GENERAL I	NFORM	ATION Continue	ed one was the sales of the	HEAT TO
Section B - CHEMICAL ID			currently correct Chen A index nomenclature	nical Abstracts (CA) name of the	substance
	Mark (X) the "Confidential" box				
Complete either item 1 (Clas	ss 1 or 2 substances) or 2 (Polymers) a	as appropri	ate. Complete all other	items.	10
f another person will submit he name, company, and ad	chemical identity information for you (dress of that person in a continuation s	for either It sheet.	em 1 or 2), mark (X) the	e box at the right. Identify	
<ol> <li>Class 1 or 2 chemical su 2 substances, see the In:</li> </ol>	bstances (for definitions of class 1 and structions Manual)	d class	Class 1	Class 2	CBI
a. Class of substance - Ma	rk (X)				
substances. For Class 1	ly correct Chemical Abstracts (CA) Na substances a CA Index Name must be provided, which ever is appropriate be	e provided.	For Class 2 substances	s either a CA Index Name or CA	
CAS Registry Number (if	a number already exists for the subst	ance)			
c. Please identify which me	thod you used to develop or obtain the	e specified	chemical identity inform	nation reported in this notice: (che	eck one)
Method 1 (CAS Inventor Identification report obtain	y Expert Service - a copy of the ned from the CAS Inventory Expert led as an attachment to this notice)		IES Order Number	Method 2 (Other Source)	JOK OTIC).
Enter Attachment filename	for Part I, Section B, 1. c.				
d. Molecular formula					
			4 4 7 700		
Enter Attachment filename	for Part I. Section B. 1. e.		X 1 1 H 19704 1	hard of property training the	



# **PMN Page 4a**

the nature	of the reaction or process. (3) Ir	ediate precursor substances with adicate the range of composition	their respective CAS Registry Numbers. (2) Describe and the typical composition (where appropriate).	Confidential
e. (1) List t	he immediate precursor substa	nce names with their respective	CAS Registry Numbers.	
Ente	er Attachment filename for Part	I, Section B, 1. e. (1)		
e. (2) Desc	cribe the nature of the reaction of	or process.	mortis del missassimos semana i la segui	
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		nd the typical composition (where	appropriate).	
Ente	er Attachment filename for Part	I, Section B, 1. e. (3)		



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			ITY INFORMATION		ued				_	10.51	
a. Indicate the	e number-averag	ge weight	see the Instructions Man of the lowest molecular w low molecular weight spe	eight compo						Confide	ntial 1
below 500	and below 1,000	absolute	molecular weight of that	composition.	uding residual	monor	ners, reactan	s, or solve	nts)		
	August 1	Des	scribe the methods of mea	asurement or	the basis for	your es	timates:				
GPC		Other	(Specify Below)							GOB!	
Specify Oth	er:										
(i) lowest nun	nber average mo weight:	olecular	(ii) maximum weight w	% below 50 eight:	0 molecular	(ii	i) maximum w	eight % be weight		00 molecu	ılar
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(7) - Mark (		•	column (6) is confidential.			_	Typical	Include in		Max	Т
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C	AS Registry Nur	mber (1)									
Mark (X) this b	ox if the data co	ntinues or	the next page.		6 5 - 64						



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Method 1 (CAS inventory Expert Service - a copy of the identification report oblained from CAS Inventory Expert Service must be submitted as an attachment to this notice)  Enter Attachment filename for Part I, Section B. 2. c.  The currently correct Chemical Abstracts (CA) name for the polymer that is consistent with TSCA Inventory listings for similar polymers.  CAS Registry Number (if a number already exists for the substance)  Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained.	
The currently correct Chemical Abstracts (CA) name for the polymer that is consistent with TSCA Inventory listings for similar polymers.  CAS Registry Number (if a number already exists for the substance)  Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained.	
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Enter Attachment filename for Part I, Section B. 2. e.	



Part I GENERAL INFORMATION	Continued		
Section B CHEMICAL IDENTITY INFORMATION Continued	AND THE PARTY NO.	SU(2094 - 1	I noiteet
Impurities     (a) - Identify each impurity that may be reasonably anticipated to be present in the club purpose. Provide the CAS Registry Number if available. If there are unidentified (b) - Estimate the maximum weight % of each impurity. If there are unidentified impu	impurities, enter "unidentified."		rcial
Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	Confi- dential
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Mark (X) this box if the data continues on the next page.	and the second second	A P TOTAL	
Enter Attachment filename for Part I, Section B, 3.		MADE AND A	
Enter Attachment filename for Part I, Section B, 4.  5. Trade identification - List trade names for the new chemical substance identified in subse	ction 1 or 2.		
Enter Attachment filename for Part I, Section B, 5.			¥5.
Generic chemical name - If you claim chemical identify as confidential, you must provide specific chemical identity of the new chemical substance to the r Substance Inventory, 1985 Edition, Appendix B for guidance on	maximum extent possible. Refer		
Enter Attachment filename for Part I, Section B, 6.  7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or	r disposal of the new shaminal	nubatanaa Pro	tido tho
CAS Registry Number if available.			nue lile ,
Byproduct (1)	CAS Reg	gistry Number (2)	Confi- dential
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Part I GI Section C PRODUCTION, IMPORT, AND					N C	ontin	ued	terio. I la					
The information on this page refers to consolidated					2	Γ	]3	74		5	6		
Mark (X) the "Con				item y				<u> </u>		3	0		
<ol> <li>Production volume Estimate the maximum produced volume for any consecutive 12-month period during For a Low Volume Exemption application, if you cholume and mark (x) in the binding box. If granted.</li> </ol>	g the fir	st three year have your	ars of pro-	duction. viewed	Estimates	should	be on	100% ne	ew chem	ical sul	bstance	basis.	
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)					ction (kg/y tance basi		C	Confidential Binding Option Mark (X)					
Enter Attachment filename for Part I, Section C	, 1.	- 50								CBI			
confidential. a. (1)Describe each intended category of use (2)Mark (X) this column if entry column (1) i (3)Indicate your willingness to have the info (4)Estimate the percent of total production (5)Mark (X) this column if entry in column (6)Estimate the percent of the new substan commercial purposes at sites under you (7)Mark (X) this column if entry in column (8)Indicate % of product volume expected f willingness to have the use type provide (9)Mark (X) this column if entry(ies) in colum	is conficer for the finance as for ce as for r contro of the lind in (8)	dential busing provided in provided in its three your fidential bust or mulated in associate of fidential busted "use" is binding.	ness inform column ears devo usiness in mixtures d with ear usiness in sectors. A	mation (1) bind ted to extended formation s, suspect category formation Mark mon	(CBI). ing. ach categor on (CBI). nsions, en ory of use on (CBI). re than on	ory of us nulsions	se. ., solutio					or	
Category of use (1) (by function and application i.e. a dispersive dye for	СВІ	Binding Option	Prod uction	СВІ	% in Form-	СВІ	% of substance expected per use (8)				er use	СВІ	
finishing polyester fibers)	(2)	Mark (X) (3)	% ( <b>4</b> )	(5)	ulation (6)	(7)	Site- limited	Con- sumer*	Industrial	Com- mercial	Binding Option	(9)	
			iph see i					, in					
			Con 1866 Con Consulta										
* If you have identified a "consumer" use, please proconsumer products. In addition include estimates of t													
the chemical reactions by which this substance loses		ntity in the o	consumer	product			170.6		_			7	
b. Generic use description If you claim any category Read the Instruction Man	of use					ential, e	nter a g	eneric c	lescriptic	on of th	at categ	ory.	
Enter Attachment filename for Part I, Section	C, 2. b.				_				СВ	81		1	
3. Hazard Information Include in the notice a copy of data sheet, or other information which will be provided regarding protective equipment or practices for the same hazard information you include.  Mark (X) this box if you attach hazard information.	d to any afe hand	person wh	no is reas	onably li	ikely to be	expose	d to this	s substa	rial safet	у	Binding Mark		



Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE											
Section A INDUSTRIAL	SITES C	ONTROLLED BY THE SUB			e "Confidential" bo						
The information on pages 8 and	d 8a refer to	consolidated chemical number(s		3	4 5	6					
Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at industrial 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											
Operation description     a. Identity Enter the id	entity of the	e site at which the operation will	occur.			Confi- dential					
Name											
Site address (number and street)											
City			County								
State			ZIP code								
sites on a continuation sheet, operations, include all the info	and if any or ormation rec	han one site, enter the number of the sites have significantly dif quested in this section for those	ferent production rates or	nal							
Mark (X) this box if the	data continu	es on the next page.									
b. Type Mark (X) Manu	ufacturing	Processing	Use	. [							
c. Amount and Duration	Complete		-			Confi- dential					
1. Batch		Maximum kg/batch (100% new chemical substance)	Hours/batch Batches/ye		Batches/year						
		Maximum kg/day	Hours/day		Days/year						
2. Continuous		(100% new chemical substance)	Tiousiday Daysiyear								
d. Process description			Mark (X) to indicate your will have your process description								
pails, 55 gallon drum (2) Provide the identity, materials and feedstochemicals (note frequency) (3) Identify by number the	i, rail car, tan the approxim ocks (includii uency if not u ne points of re	steps and chemical conversions. In k truck, etc.). hate weight (by kg/day or kg/batch on ng reactants, solvents, catalysts, etc used daily or per batch.). elease, including small or intermitter ne step, assign a second release nu	n a 100% new chemical subst c.), and of all products, recycle nt releases, to the environmen	ance basis) streams, a	, and entry point on nd wastes. Include	of all starting e cleaning					
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**PMN Page 8a** 

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Diagram of the major unit	operation steps.			
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Enter Attachment filen	name for Part II, Section A, 1. d.			



Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Continued Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER Continued	Charles and	Ei I
The information on pages 9 and 9a refer to consolidated chemical number(s): 1 2 3 4	5 6	
<ul> <li>2. Occupational Exposure You must make separate confidentiality claims for the description of worker activity, physical form of t substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as cor (1) Describe the activities (i.e. bag dumping, tote filling, unloading drums, sampling, cleaning, etc.) in which workers may b substance.</li> <li>(2) Mark (X) this column if entry in column (1) is confidential business information (CBI).</li> <li>(3) Describe any protective equipment and engineering controls used to protect workers.</li> <li>(4) and (6) Indicate your willingness to have the information provided in column (3) or (5) binding.</li> <li>(5) Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new concern for a mixture at the time of exposure.</li> <li>(7) Mark (X) this column if entries in columns (3) and (5) are confidential business information (CBI).</li> <li>(8) Estimate the maximum number of workers involved in each activity for all sites combined.</li> <li>(9) Mark (X) this column if entry in column (8) is confidential business information (CBI).</li> <li>(10) and (11) Estimate the maximum duration of the activity for any worker in hours per day and days per year.</li> <li>(12) Mark (X) this column if entries in columns (10) and (11) are confidential business information (CBI).</li> </ul>	he new chemical nfidential. e exposed to the	e (if
Worker activity Protective Equipment/ Binding Physical Binding # of Maxim	num Duration	СВІ
drums) Engineering Controls Mark (X) & % new substance (6) (7) Exposed (8) (9) (10)	y Days/Yr (	(12)
		47
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	United to the second	
Mark (X) this box if the data continues on the next page.		



### 009P9A 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. 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 of New Substance Released		Medium of release CBI e.g. Stack air		Ð	Control technology and efficiency (you may wish to optionally attach efficiency data)				
(1)	(2a)	(2b)	(3)	(4)		(5a)	Binding Mark (X)	(5b)	(6)	
4	P 1 7			The second	100			101 101		
•									-	
					,	1		-		
								-		
2)					-					
- 1-				-						
18										
				n the next page.						
(7) Mark	(X) the des	tination(s)	of release	es to water.			NPDES	#	CBI	
	POTWpromame(s)	vide								
Navigable waterway provide name(s)					_		-			
	OtherSpec	cify				Many and the later was		r, mace		
	Enter Attachme	ent filename	for Part II, S	ection A.			mand sure			



Part II HUMAN EXPOSURE AND ENVIRON	MENT	AL RE	LEASE -	- Contin	ued		
Section B - INDUSTRIAL SITES CONTROLLED BY OTHERS	1000			July Mily	TOTAL T		
The information on pages 10 and 10a refer to consolidated chemical number(	s):	1	2	<b></b> ]3	4	5	<b>6</b>
Complete section B for typical processing or use operations involving the new chem complete this section for operations outside the U.S.; however, you must report any Complete a separate section B for each type of processing, or use operation involving more than one site describe the typical operation common to these sites. Identify at 1(a). Operation Description — To claim information in this section as confidential.  (1) — Diagram the major unit operation steps and chemical conversions, incliquals, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify chemical substance basis), and entry point of all feedstocks (including streams, and wastes. Include cleaning chemicals (note frequency if note that the diagram or in the text field 1(b) below, identify by number environment of the new chemical substance.  (4) — Please enter the # of sites (remember to identify the locations of these	r processing the ne dditional sential, bra- uding intentify by let, the apprareactants t used dai the points	ng or use w cheming ites on a cheet (extended the cheminate of the chemina	e activities cal substate continuation occurred to the substate occurre	after impor nce. If the s on sheet. specific inf insport con ribe each v kg/day or l lysts, etc) a	t. See the Ir came operal ormation thatiners (spe vorker activity (g/batch, on and all produ	nstructions tion is perf nat you cla ecify - e.g. ty. an 100% ucts, recyc	Manual. ormed at aim as 5 gallon new
	Nur	nber of	Sites	-2007	Confi	idential	
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	911		(SA)		gath		10)
1(b). (Optional) This space is for a text description to clarify the diagram above.					Conf	idential	
							2
Enter Attachment florome for Dark II. Continue Dark III. And III.							
Enter Attachment filename for Part II, Section B on the bottom of page 10a.							40.7



## **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	tion of osure	СВІ	Protecti	ve Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)
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						_				
				-						
Release	Amount	of New	Substan	nce Releas	hea	СВІ	Media of Release & Control	Technology		СВІ
Number (9)	(10		- Jubstan	(10b)	300	(11)	(12)	Toolillology		(13)
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	<i>H</i>		+	×				of a set of the second		HV.
9/							1			
-										
	Mark (X) this	box if th	ne data co	ntinues or	n the ne	kt page.				
(14) Byp	roducts:								(15) CBI	
	Enter Attachi	ment file	name for	Part II, Se	ection B.					



NON-CBI SUBMISSION

## OPTIONAL POLLUTION PREVENTION INFORMATION

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

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

Describe the expected net benefits, such as

- (1) an overall reduction in risk to human health or the environment;
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks;
- (4) a reduction in potential toxicity, human exposure and/or environmental release; or
- (5) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall risk to human health or the environment

mation pro	vided in this sect revention Guidan	ion will be to ce manual f	aken into or guidan	considei ce and e	ration durin xampies.	g the revie	w of this s	ubstance. See PM	IN Instructions	manua



### Part III -- LIST OF ATTACHMENTS

Attach continuation sheets for sections of the form, test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of any paper attachments. In the Number of Pages column below, enter the inclusive page numbers of each attachment for paper submissions or enter the total number of pages for each attachment for electronic submissions. Electronic attachments can be identified by filename.

Mark (X) the "Confidential" box next to any attachment name or filename you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the

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

#	Attachment Name	Attachment Filename	Number of Pages	Associated PMN Section Number	СВ
01	PMN attachment	blank page.doc	30	And Article Additional law Environment	1 64 13
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P	HYSICAL AND	CHEMICA	L PROPER	TIES WO	PRKSHEE	Т		
The information on this page refe	ers to chemical n	number(s):	1	2	3	]4 [	5 6	
To assist EPA's review of physical and of notice. Identify the property measured, the property is claimed as confidential. Give provided. These measured properties should be so noted (% PMI you do so, as it will simplify the review a supplement to your submission of test designed.	he value of the prop the attachment nur hould be for the nea N substance in). nd ensure that conf	perty, the units onber (found o at (100% pure) You are not re didential inform	s in which the p n page 12) in c chemical subs equired to subr nation is proper	roperty is r column (b). stance. Pro- nit this wor by protected	neasured (as The physical perties that a ksheet; howe d. You should	s necessary I state of the are measure ever, EPA s	), and whether e neat substance d for mixtures trongly recomn	or not the ce should be or nends that
Property (a)	Unit	Mark X if Provided	Attachment Number (b)	Value (c)			Measured or Estimat (M or E)	
Physical state of neat substance	tedmo	Section N	ed PVIN I	(solid)	(liquid)	(gas)		
Vapor Pressure @ Temperature	°C		SIFT			Torr		
Density/relative density		ISO light	oo fan aent			g/cm3		
Solubility								
@ Temperature	°c	radmu	Report N			g/L		
Solvent								
Solubility in Water @ Temperature	°c					g/L		
Melting Temperature						°C		
Boiling / Sublimation temperature @	Torr					°C		
Spectra								
Dissociation constant								
Octanol / water partition coefficient								
Henry's Law constant								
Volatilization from water								
Volatilization from soil								
pH@ concentration								
Flammability								
Explodability								
Adsorption / Coefficient								
Other – Specify								
Other - Specify								

## ATTACHMENT HEADER SHEET

Attachment Number 001

Attachment Name
PMN attachment

Associated PMN Section Number

N/A

Does not contain CBI

Report Number