## Cover Letter

XXX



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			Form App	proved. O.M.B. No. 207	70-0012. Approval Expires 12/31/2022			
U.S. ENVIF	RONMENTAL PROTECTION	AGENCY		AGENCY USE ONLY				
PREMANUFACT			RE	Date of receipt:	07/21/2021			
Name of the Part o	PA FOR NEW C	NOTICE HEMICAL SUBS	TANCES					
When completed, send this form to:	If sending by Courier: Office of Pollution Prevention and Toxics Document Control Office (7407M) US EPA, 1201 Constitution Ave NW WASHINGTON, D.C. 20460 Contact Numbers: 202-564-8930/8940	Office of Pollution   Document Control US EPA, 1200 Penn	If sending by US Mail: Office of Pollution Prevention and Toxics Document Control Office (7407M) US EPA, 1200 Pennsylvania Ave NW WASHINGTON, D.C. 20460		Submission Report Number			
Total Numbe	***************************************		TS Number					
24			BM0604					
			AL INSTRUCTIONS					
<ul><li>Before you co (TSCA) Inform</li><li>If a fee has be</li></ul>	vide all information requested in this form to the eximplete this form, you should read the "Instructions nation Service by calling 202-554-1404, or faxing 2 een remitted for this notice (40 CFR 700.45), indicaur corresponding fee remittance. For mailing addr	Manual for Premanufa 202-554-5603). ate in the boxes above	acture Notification" (the Instr the TS fee identification num	uctions Manual is available ober you have generated. F	from the Toxic Substances Control Act			
Part I – GENE	ERAL INFORMATION	TEST [	DATA AND OTHER [	DATA				

You must provide the currently correct Chemical Abstracts (CA) Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submission will not be complete and the review will not begin until EPA receives this information. A letter in support of your submission should reference your TS fee identification number. For all Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data; if you claimed any information as confidential, an original sanitized copy must also be submitted.

# Part II – HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

If there are several manufacture, processing, or use operations to be described in Part II, sections A and B of this notice, reproduce the sections as needed.

#### Part III - LIST OF ATTACHMENTS

For paper submissions, attach additional sheets if there is not enough space to answer a question fully. Label each continuation sheet with the corresponding section heading. In Part III, list these attachments, any test data or other data and any optional information included in the notice.

### **OPTIONAL INFORMATION**

You may include any information that you want EPA to consider in evaluating the new substance. On page 11 of this form, space has been provided for you to describe pollution prevention and recycling information you may have regarding the new substance. "Binding" boxes are included throughout this form for you to indicate your willingness to be bound to certain statements you make in this section, such as use, production volume, protective equipment . . . The intention is to reduce delays that routinely accompany the development of consent orders or Significant New Use Rules. Checking a "binding" box in a PMN does not by itself prohibit the submitter from later deviating from the information (except chemical identity) reported in the form; however, in the case of exemption applications (such as TMEA, LVE, LOREX) certain information provided in such notifications is binding on the submitter when the Agency approves the exemption application, especially if the production volume "binding" box is chosen in a LVE.

### **CONFIDENTIALITY CLAIMS**

You may claim any information in this notice as confidential. To assert a claim on the form, mark (X) the confidential box next to the information that you claim as confidential. To assert a claim in an attachment, circle or bracket the information you claim as confidential. If you claim information in the notices as confidential, you must also provide a sanitized version of the notice. (including attachments). For additional instructions on claiming information as confidential, read the Instructions Manual.

You are required to submit all test data in your possession or control and to provide a description of all other data known to or reasonably ascertainable by you, if these data are related to the health and environmental effects on the manufacture, processing, distribution in commerce, use, or disposal of the new chemical substance. Standard literature citations may be submitted for data in the open scientific literature. Complete test data (written in English), not summaries of data, must be submitted if they do not appear in the open literature. You should clearly identify whether test data is on the substance or on an analog. Also, the chemical composition of the tested material should be characterized. Following are examples of test data and other data. Data should be submitted according to the requirements of §720.50 of the Premanufacture Notification Rule (40 CFR Part 720).

	Test Data (Check Below any	/ include	d in this notice)						
X	Environmental fate data		Other Data						
	Health effects data		Risk Assessments						
			Structure/activity relationships d chemical properties worksheet is						
Ш	Test data not in the possession or cor	ntrol of the	e submitter						
Health effects data  Risk Assessments  Environmental effects data  Structure/activity relationships  Physical/Chemical Properties (A physical and chemical properties worksheet is located on the last page of this form.)  Test data not in the possession or control of the submitter  TYPE OF NOTICE (Check Only One)  PMN (Premanufacture Notice)  X SNUN (Significant New Use Notice)  TMEA (Test Marketing Exemption Application)  LVE (Low Volume Exemption) @ 40 CFR 723.50(c)(1)  LOREX (Low Release/Low Exposure Exemption) @ 40 CFR 723.50(c)(2)  LVE Modification  LOREX Modification  Mock Submission  Mark (X) if pending Letter of Support  N IS THIS A CONSOLIDATED PMN (Y/N)?  # of chemicals or polymers (Prenotice Communication # required, enter # on p. 3).									
	PMN (Premanufacture Notice)								
X	SNUN (Significant New Use Notice)								
	TMEA (Test Marketing Exemption Application)								
	PMN (Premanufacture Notice)  X SNUN (Significant New Use Notice)  TMEA (Test Marketing Exemption Application)  LVE (Low Volume Exemption) @ 40 CFR 723.50(c)(1)								
	LOREX (Low Release/Low Exposure	Exemption	on) @ 40 CFR 723.50(c)(2)						
	LVE Modification								
	LOREX Modification								
	Mock Submission								
	Mark (X) if pending Letter of Supp	port							
Ν	IS THIS A CONSOLIDATED PMN (Y/	N)?							
1		tice Com	munication # required, enter # on						
$\overline{\mathbf{x}}$	Mark (X) if any information in this notice	ce is clain	ned as confidential						



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PMN Page 2

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 hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate. I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for protection for any confidential information made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that the person submitting the claim has:

- (i) taken reasonable measures to protect the confidentiality of the information;
- (ii) determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law
- (iii) a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of the person; and
- (iv) a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.

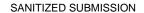
### **Additional Certification Statements:**

If you are submitting a PMN, SNUN, LoREX, LVE, or TMEA, check the following Fees Certification statement that applies:

	The Company named in Part I, Section A is a "small business concern" a fee as specified in 40 CFR 700.45(c).	s defined u	nder 40 CFR 700.43 and will r	emit the							
X	The Company named in Part I, Section A will remit the fee as specified in 4	0 CFR 700.	45(c).								
	This joint submission includes at least one Company which is a "small busin not a "small business concern," as defined under 40 CFR 700.43. The fee vertical remaining balance due for this joint submission is to be paid by the second	vill be remitt	ed with the joint submission. A								
	The company named in Part I, Section A is submitting a sustainable futures TME. The company has graduated from EPA's Sustainable Futures program and is therefore exempt from fees for this sustainable futures TME.										
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 to other than in small quantities solely for research and development, under the submitted of the submi			l purposes,							
	The manufacturer is familiar with the terms of this section and will comply	with those to	erms; and								
	The new chemical substance for which the notice is submitted meets all a	pplicable ex	emption conditions.								
	If this application is for an LVE in accordance with 40 CFR 723.50(c)(1), the exempted substance for commercial purposes within 1 year of the date										
				Confidential							
Signature and title of Authorized Official (Original XXX Date XXX X											



Part I GENERAL INFORMATION Section A – SUBMITTER IDENTIFICATION												
Secu	OH A				ext	to any si	ubsection you clair	n as co	nfidential			
1a.		Person Submittin	a Notice (ir			•	<u>-</u>			Confidential		
Name	of Au	ıthorized Official	(first) XXX				(last) XXX					
Positio	on		XXX									
Compa	any		XXX	XXX								
Mailing	g Add	Iress (number & street)	XXX									
City				State			Postal Code	XXX	(			
email		XXX										
b.		Agent (if Applicat					(1 )			Confidential		
Name	of Au	thorized Official	(first)				(last)					
Positio	on											
Compa	any											
Mailing	g Add	Iress (number & street)										
City				State			Postal Code					
e-mail				Telephone (include area code)								
C.		Joint Submitter (i	f applicable	e)						Confidential		
If you	are sı	ubmitting this notice as pa	· · · · · · · · · · · · · · · · · · ·	ıbmission, marl	(X	)						
Name	of Au	uthorized Official	(first)				(last)					
Positio	Position											
Compa	any									1 🖂		
Mailing	g Add	Iress (number & street)										
City			•	State			Postal Code					
e-mail						Teleph	one e area code)		_			
2.		Technical Contac	4 (in 11 C )			(IIICIGG	e area code)			Confidential		
	of Au	uthorized Official	(first) XXX		(last) XXX							
Positio		anonzea emolai		X XXX								
				XXX								
Compa			XXX							X		
· ·	g Add	Iress (number & street)	XXX		1					_		
City		XXX		State	4.	XXX	Postal Code	XXX	(			
e-mail		XXX				Telephor (include	ne area code)	XXX	(			
3.		ou have had a prenotice of notice and EPA assigned			ng	XXX			Mark (X) if none	Confidential		
ა.		er the number.	a a PC Numbe	r to the notice,						X		
		ou previously submitted a			e	XXX			Mark (X) if none	Confidential		
4.	exer subr	chemical substance covered by this notice, enter the exemption number assigned by EPA. If you previously submitted a PMN for this substance enter the PMN numb assigned by EPA (i.e. withdrawn or incomplete).								X		
		ou have submitted a notice				XXX		Mark (X) if none	e Confidential			
5.	man	nufacture or import for the his notice, enter the notice	e chemical sub	al substance covered						X		
6.				Туре	of	Notic	e – Mark (X)		_			
1	Man	nufacture Only		Import Only				2	Roth			
1.	Bind	ding Option	2.	Binding Opt	ion			3.	Both			





	Part I – GEN	IERAL INFORM	ATION Co	ntinued							
Section B – CHEMICAL IDENTITY INFORMATION:  You must provide a currently correct Chemical Abstracts (CA) name of the substance based on current CA index nomenclature rules and conventions.											
Mark (X) the "Confidential" box next to any item you claim as confidential											
Complete either item 1 (Class 1 or 2 substances) or 2 (Polymers) as appropriate. Complete all other items.											
If another person will submit chemical identity information for you (for either Item 1 or 2), mark (X) the box at the right. Identify the name, company, and address of that person in a continuation sheet.											
<ol> <li>Class 1 or 2 chemical su 2 substances, see the In</li> </ol>	ubstances (for definitions of cl estructions Manual)	lass 1 and class	Class 1		Class 2		СВІ				
a. Class of substance - Ma	ırk (X)		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).											
Propanenitrile, 2,3,3,3-	etrafluoro-2-(trifluorom	etnyi)-									
CAS Registry Number (i	f a number already exists for	the substance)	42532-60-	5							
	ethod you used to develop or		chemical identit	y information repo	rted in this not	ice: (check	one).				
Identification report obta	ry Expert Service - a copy of t ined from the CAS Inventory tted as an attachment to this	Expert	IES Order Number		Method 2 (Other Source)	X					
Enter Attachment filename	for Part I, Section B, 1. c.		Original Docum	nent: 12 STN CAS	CRN 42532-6	0-5.docx					
d. Molecular formula	C4F7N										
e. For a class 1 substance representative or partial	, provide a complete and corr chemical structure diagram, a	ect chemical structuas complete as can l	re diagram. For be known, if one	a class 2 substand can be reasonabl	ce, provide a c ly ascertained.	correct					
See Attachment (Original Do	ocument: 13 Molecular Struct	ure.pdf									



# 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 filename for Part I, Section B, 1. e. (2)							
e. (3) Indicate the range of composition and the typical composition (where appropriate).							
Enter Attachment filename for Part I. Section B. 1, e. (3)							



Part I GENERAL INFORMATION C	ontinued		
Section B CHEMICAL IDENTITY INFORMATION Continued			
Impurities     (a) - Identify each impurity that may be reasonably anticipated to be present in the chemic purpose. Provide the CAS Registry Number if available. If there are unidentified impu (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities,	rities, enter "unidentified."		rcial
Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	Confi- dential
	(4)	(2)	
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 subsection 1 or 2.			
Enter Attachment filename for Part I, Section B, 4.			
5. Trade identification - List trade names for the new chemical substance identified in subsection	1 or 2.		
Enter Attachment filename for Part I, Section B, 5.			
6. Generic chemical name - If you claim chemical identify as confidential, you must provide a gen specific chemical identity of the new chemical substance to the maxim Substance Inventory, 1985 Edition, Appendix B for guidance on devel	ium extent possible. Refer		
Enter Attachment filename for Part I, Section B, 6.		aubatanaa Dua	i al a the a
<ol> <li>Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disp CAS Registry Number if available.</li> </ol>			
Byproduct (1)	CAS Re	gistry Number (2)	Confi- dential
Mark (X) this box if the data continues on the next page.			



		Par	t I GENERAL II	NFORMA		Con	tinued				
			ITY INFORMATION		ed					1	
			see the Instructions Manua of the lowest molecular we		tion of the no	lymer v	ou intend to	manufactu	rο	Confide	ntial
Indicate maximum weight percent of low molecular weight species (not including residual monomers, reactants, or solvents) below 500 and below 1,000 absolute molecular weight of that composition.											
	Describe the methods of measurement or the basis for your estimates:										
GPC		Other	(Specify Below)								
Specify Other:											
(i) lowest number a	-	lecular	(ii) maximum weight we	% below 500 eight:	molecular	(iii	) maximum w	reight % be weight		00 molecu	ılar
			I, Section B, 2. a.								
(X) the "Confidential (1) - Provide the manufactur (2) - Mark (X) thi (3) - Indicate the (4) - Choose "ye the polymei (5) - Mark (X) thi (6) - Indicate the manufactur	<ul> <li>2. 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.</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>										
Monomer or other reactant specific chemical name  (1)						CBI (2)	Typical composition (3)	Include in identity (4)	CBI ( <b>5</b> )	Max residual (6)	CBI (7)
	egistry Nun										
CAS R	egistry Nun	nber ( <b>1</b> )									
CAS R	egistry Nun	nber ( <b>1</b> )									
	egistry Nun	` /	the court are				1				
Mark (X) this box if t	ne data cor	ntinues or	i the next page.							1 1	l



PMN Page 5a

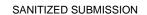
c. Please identify which method you used to develop or obtain (check one).	the specified ch	emical identity information reported in this notice	СВІ
Method 1 (CAS Inventory Expert Service			
- a copy of the identification report obtained	IES Order Number	Method 2	
from CAS Inventory Expert Service must be submitted as an attachment to this notice)	Number	(other source)	
Enter Attachment filename for Part I, Section B, 2. c.			
d. The currently correct Chemical Abstracts (CA) name for the	e 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 structua scertained.	ure diagram, as c	omplete as can be known, if one can be reasonably	
ascertained.			
Enter Attachment filename for Part I, Section B, 2. e	e.		



PMN2021P7		PININ	Page									
Part I Gl	ENER	<b>RAL INI</b>	FORM	ATIO	N Co	ntin	ued					
Section C PRODUCTION, IMPORT, AND	USE	INFORM	IATION									
The information on this page refers to consolidated	chemic	al numbe	r(s):	X 1	2		3	4		5	6	
Mark (X) the "Con	fidentia	al" box ne	xt to any	item y	ou claim a	as con	<del>-</del> fidentia	.l.				
<ol> <li>Production volume Estimate the maximum production 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 firs	st three yea have your	ars of prod notice rev	duction. viewed a	Estimates	should	be on 1	00% ne	w chem	ical sul	ostance	basis.
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)		Maximum 12-month production (kg/yr) (100% new chemical substance basis)  Confidential  Binding Option Mark (X)										
XXX	XXX	XXX						X				
Enter Attachment filename for Part I, Section C	, 1.	See	Attachme	nt Conti	nuation Pa	ıge				СВІ		
2. Use Information You must make separate confide to each category, the formulation of the new substaconfidential.  a. (1)Describe each intended category of use (2)Mark (X) this column if entry column (1) if (3)Indicate your willingness to have the inform (4)Estimate the percent of total production if (5)Mark (X) this column if entry in column (4)Estimate the percent of the new substance ommercial purposes at sites under your (7)Mark (X) this column if entry in column (8)Indicate % of product volume expected for willingness to have the use type provider (9)Mark (X) this column if entry(ies) in column	of the noise confident and the firmation for the file of the file	ew chemic lential busi provided i rst three your fidential bu rmulated ii associate didential busted "use": binding.	e informar al substar ness infor n column ears devor usiness informar d with eac usiness informar sectors. M	tion. Ma nce by fu mation ( (1) bind ted to ea formatio or, suspen th categ formatio lark mor	rk (X) the ' unction and CBI). ing. ach catego n (CBI). nsions, em ory of use. n (CBI). e than one	Confident disconnections of the confidence of th	ential" B ation. se.	ons, or g	to any i	tem yo	u claim a	as
Category of use (1)	(0) 10	Binding	Prod	30111000	% in	1 (001).	% of	substan	nce expe	ected pe	er use	
(by function and application i.e. a dispersive dye for finishing polyester fibers)	CBI	Option Mark (X)	uction %	CBI	Form- ulation	CBI	Site- limited	Con- sumer*	(8)	Com- mercial	Binding Option	CBI
www.	(2) X	(3) X	(4)	(5) X	(6)	(7) X			2004		Option	(9) X
XXX	^	^	XXX		XXX		XXX	XXX	XXX	xxx		
* If you have identified a "consumer" use, please prov consumer products. In addition include estimates of t the chemical reactions by which this substance loses	he conc	entration o	f the new	chemica	al substand							
Mark (X) this box if the data continues on the next page		,										
b. Generic use description If you claim any category Read the Instruction Man	of use					ntial, ei	nter a ge	eneric d	escriptic	on of the	at categ	ory.
Enter Attachment filename for Part I, Section	C, 2. b.								СВ	5l		7
3. 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.  Mark (X) this box if you attach hazard information.	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	Binding Mark	



Ю	Field	Production Volume
Sanitized Document: 3 ChromAb_SAN.pdf		
Sanitized Document: 4 Comb_Invivo_Micronuc_a	and	
Sanitized Document: 6 Invitro_Mut_SAN.pdf		





Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE											
Section A INDUSTRIAL	. SITES C	ONTROLLI	ED BY THE SUB	MITTER		Mark (X) any item					xt to
The information on pages 8 and 8a refer to consolidated chemical number(s): X 1 2 3 4 5  Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at indus											]6
Complete section A for each you control. Importers do not requirements if there are furth instructions manual  1. Operation description	have to con	nplete this se	ection for operation	s outside tl	he U.S.; howeve	r, you m	ay s	still have	report	ting e	sites
a. Identity Enter the identity of the site at which the operation will occur.											ential
Name	xxx										
Site address (number and street)	xxx	XXX								X	
City	XXX			County		XXX					
State	XXX			ZIP code		XXX					
If the same operation will occ sites on a continuation sheet, operations, include all the info	and if any	of the sites h	ave significantly di	fferent prod	duction rates or	nal		XXX			Χ
Mark (X) this box if the	data continu	es on the next	t page.			Χ	<u> </u>				
b. Type Mark (X)	ufacturing		Processing		Use	)					Χ
c. Amount and Duration	Complete		• • •				ı			_	onfi- ential
1. Batch		(100%	Maximum kg/batch (100% new chemical substance)  XXX  Maximum kg/batch Hours/batch XXX			Batches/year XXX			s/year		X
			imum kg/day	7000							
2. Continuous			chemical substance)		Hours/day			Days/y	/ear		
d. Process description					to indicate your will r process description						
pails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note freq (3) Identify by number the	n, rail car, tan the approxim tocks (includii uency if not une points of re	k truck, etc.). ate weight (by ng reactants, s used daily or p elease, includ	emical conversions. In y kg/day or kg/batch of solvents, catalysts, et per batch.). ing small or intermitted of a second release no	on a 100% nc.), and of a	ew chemical subst Il products, recycle to the environmen	ance bas streams	sis), , and	and entry d wastes	point o	of all see clea	starting uning
XXX										[	Χ



2021P8A PMN Page 8a

Discusses of the major unit encuction stone					
Diagram of the major unit operation steps.		X			
	I				
See Attachment (Sanitized Document: 14 Manufacturing Process - S )					
)					
Enter Attachment filename for Part II, Section A, 1. d. Sar	nitized Document: 14 Manufacturing Process -	s X			

EPA Form 7710-25 (12-19)



PMN2021P8-1

ID		Field	Part II, Section	A, 1.a. (Addi	tional Sites)					
Operation descriptio     a. Identity Enter	n the identity of the	e site at wh	nich the operation	will occur.		Confi- dential				
Name	xxx									
Site address (number and street)	XXX					X				
City	XXX			County	XXX					
State	XXX			ZIP code	XXX					
Name										
Site address (number and street)										
City				County						
State				ZIP code						
Name										
Site address (number and street)										
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Site address (number and street)										
City				County						
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Name										
Site address (number and street)										
City				County						
State				ZIP code						



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I with age t	<del>,</del>								
Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Continued									
Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMIT	TTER (	Continue	d						
The information on pages 9 and 9a refer to consolidated chemical number(s):	X 1	2	3	4	5	6			

- 2. Occupational Exposure -- You must make separate confidentiality claims for the description of worker activity, physical form of the new chemical substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as confidential.
  - (1) -- Describe the activities (i.e. bag dumping, tote filling, unloading drums, sampling, cleaning, etc.) in which workers may be exposed to the substance.
  - (2) -- Mark (X) this column if entry in column (1) is confidential business information (CBI).
  - (3) -- Describe any protective equipment and engineering controls used to protect workers.
  - (4) and (6) -- Indicate your willingness to have the information provided in column (3) or (5) binding.
  - (5) -- Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new chemical substance (if part of a mixture) at the time of exposure.
  - (7) -- Mark (X) this column if 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 (i.e., bag dumping, filling drums)	СВІ	Protective Equipment/	Binding Option	Physical form(s)	Binding Option	СВІ	# of Workers	СВІ	Maximum	n Duration	СВІ
drums) (1)	(2)	Engineering Controls (3)	Mark (X) (4)	& % new substance (5)	Mark (X) (6)	(7)	Exposed (8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12)
XXX	Х	XXX		xxx		Х	XXX	Х	XXX	xxx	Х
XXX	X	XXX		XXX		Х	XXX	Х	1.5	9	
XXX	X	XXX		XXX		X	XXX	Х	XXX	xxx	X
XXX	X	XXX		XXX		X	XXX	X	XXX	xxx	X
XXX	X	XXX		XXX		X	xxx	X	XXX	XXX	X
Mark (X) this box	if the	data continues on the next pag	je.								
		ame for Part II, Section A on the		page 9a.					l		



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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		nay wish to a)	СВІ
(1)	(2a)	(2b)	(3)	(4)		(5a)		Binding Mark (X)	(5b)	(6)				
XXX	xxx	xxx	Х	XXX	XXX				XXX	Х				
XXX	xxx	XXX	Х	xxx xxx				XXX	Х					
XXX	XXX	XXX	Х	xxx	x xx			xxx	Х					
XXX	XXX	XXX	Х	xxx	xxx				xxx	Х				
XXX	XXX	XXX	Х	xxx	xxx				XXX	Х				
				on the next page.										
<b>(7)</b> Mark	ι (X) the des	stination(s)	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.										

SANITIZED SUBMISSION

Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE – Continued										
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS	INIVIENI	AL KE	LEASE	– Conti	nuec					
The information on pages 10 and 10a refer to consolidated chemical number(	(e). X	1	2	3		4 5	6			
Complete section B for typical processing or use operations involving the new cher complete this section for operations outside the U.S.; however, you must report an Complete a separate section B for each type of processing, or use operation involved.	mical subs y process /ing the ne	stance a ing or us ew chem	sites you e activitie ical subst	do not cor s after imperance. If the	ort. Se same	mporters do not e the Instruction	have to ns Manual.			
more than one site describe the typical operation common to these sites. Identify a <b>1(a). Operation Description</b> To claim information in this section as confic confidential.						ation that you c	laim as			
<ol> <li>Diagram the major unit operation steps and chemical conversions, including interim storage and transport containers (specify - e.g. 5 gallon pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify by letter and briefly describe each worker activity.</li> <li>Either in the diagram or in the text field 1(b) below, provide the identity, the approximate weight (by kg/day or kg/batch, on an 100% new chemical substance basis), and entry point of all feedstocks (including reactants, solvents and catalysts, etc) and all products, recycle streams, and wastes. Include cleaning chemicals (note frequency if not used daily or per batch).</li> <li>Either in the diagram or in the text field 1(b) below, identify by number the points of release, including small or intermittent releases, to the environment of the new chemical substance.</li> <li>Please enter the # of sites (remember to identify the locations of these sites on a continuation sheet):</li> </ol>										
	Nu	mber o	Sites	XXX		Confidential	X			
See Attachment Continuation Page										
1(b). (Optional) This space is for a text description to clarify the diagram above.						Confidential	X			
XXX										
Enter Attachment filename for Part II, Section B on the bottom of page 10a.	See Attacl	hment C	ontinuatio	n Page						



Ю	Field	Process Description
Sanitized Document: 1 Overall Production Proces Sanitized Document: 11 Use Flow Diagram - SAI		



ID	Field	Process Description
Sanitized Document: 1 Overall Production Proces	S	
Sanitized Document: 11 Use Flow Diagram - SAI	N.pdf	



<b>ID</b> P10SB1(a)(4)1	Field Part II, Section B, 1(a)(4). Operation Site Locations
12   1002 (d)(1)1	Tak ii, Gooton B, T(a)(1). Oporation one Escatione
XXXGUARDIAN GLASS SCIENCE AND TECHN	IOLOGY CENTER
14511 ROMINE RD CARLETON, MI 48117	
CARLETON, WII 48117	

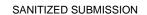


### PMN Page 10a

#### 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	Protective Equip./Engineering Controls/Physical % new substance		% in Formulation	СВІ
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)	(6)	(7)	(8)
XXX	XXX	Х	XXX	XXX	Х	XXX		XXX	XXX	Χ
Release Number	Amount	t of New	Substan	ice Releas	sed	СВІ	Media of Release & Contro	l Technology		СВІ
(9)	(10	0a)		(10b) (11)			(12)			(13)
XXX	XX	(Χ		XXX		Х	xxx			Χ
XXX	XX	Χ		XXX		Х	xxx			Χ
	Mark (X) this	box if th	ne data co	ntinues or	n the ne	xt page.				
(14) Byproducts: (15) CBI										
	Enter Attach	ment file	name for	Part II, Se	ction B.					





### OPTIONAL POLLUTION PREVENTION INFORMATION

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

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

Describe the expected net benefits, such as

(1) an overall reduction in risk to human health or the environment;

(2) a reduction in the generation of waste materials through recycling, source reduction or other means; (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks; (4) a reduction in potential toxicity, human exposure and/or environmental release; or (5) the extent to which the new chemical substance may be a substitute for an existing substance that poses a greater overall risk to human health or the environment. Information provided in this section will be taken into consideration during the review of this substance. See PMN Instructions Manual and Pollution Prevention Guidance manual for guidance and examples. XXX

Enter Attachment filename for Pollution Prevention Page 11.

Sanitized Document: 10 OPPI-with figures SAN.pdf

Χ



## **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.

notio	ce form a sanitized version of any attachment in	n which you claim information a	s confide		
#	Attachment Name	Attachment Filename	Number of Pages	Associated PMN Section Number	СВ
1	Chromosomal Aberration Test	ChromAb_SAN.pdf	35	Production Information Section (Chemical 1529969)	
2	Combined In Vivo Micronucleus and Comet Assay in Sprague Dawley Rats	Comb_Invivo_Micronuc_and_Co met-SAN.pdf	349	Production Information Section (Chemical 1529969)	
3	In vitro mammalian cell gene mutation test at the TK-locus of L5178Y cells	Invitro_Mut_SAN.pdf	37	Production Information Section (Chemical 1529969)	
4	Acute Inhalation Toxicity Study	Acute_Inhal_SAN.pdf	39	Hazard Information Section (Chemical 1529969)	
5	Eye Irritation Study	Eye_Irritation_SAN.pdf	26	Hazard Information Section (Chemical 1529969)	
6	Ready Biodegradability	Prelim_Biodegradation_SAN.pdf	11	Hazard Information Section (Chemical 1529969)	
7	Inhalation reproduction and developmental toxicity screening test	Repro_dev_SAN.pdf	347	Hazard Information Section (Chemical 1529969)	
8	SDS	US SDS - SAN.pdf	10	Hazard Information Section (Chemical 1529969)	
9	Molecular Structure	Molecular Structure.pdf	1	Class 1 or 2 Substances Chemical Structure Diagram (Chemical	
10	CRN 42532-60-5 ID STN	STN CAS CRN 42532-60-5.docx	1	Class 1 or 2 Substances ID Method (Chemical 1529969)	
11	Manufacturing Process	Manufacturing Process - SAN.pdf	1	Submitter Controlled Operations (Manufacturing Site Information)	
12	Overall Process Diagram	Overall Production Process -	1	Industrial Sites Controlled By Others	
13	Use Flow Diagram	Use Flow Diagram - SAN.pdf	1	Industrial Sites Controlled By Others (Guardian Glass Sites)	
14	Updated Processing Diagram	Processing Diagram 7-14-21 - SAN.pdf	1	Additional Attachments	
15	Engineering Controls for Sites Controlled by	Engineering Controls for Sites	3	Additional Attachments	
16	Optional Pollution Prevention (with figures)	OPPI-with figures SAN.pdf	3	Optional Pollution Prevention	
	Mark (X) this box if the data continues on the n	ext page.			



PHYSICAL AND CHEMICAL PROPERTIES WORKSHEET										
The information on this page	refers to ch	emical r	number(s):	X 1	2	3	]4 [	5	☐ 6	
notice. Identify the property measu property is claimed as confidential. provided. These measured propert formulations should be so noted (% you do so, as it will simplify the rev	assist EPA's review of physical and chemical properties data, please complete the following worksheet for data you provide and include it in the stice. Identify the property measured, the value of the property, the units in which the property is measured (as necessary), and whether or not the operty is claimed as confidential. Give the attachment number (found on page 12) in column (b). The physical state of the neat substance should be ovided. These measured properties should be for the neat (100% pure) chemical substance. Properties that are measured for mixtures or remulations should be so noted (% PMN substance in). You are not required to submit this worksheet; however, EPA strongly recommends that u do so, as it will simplify the review and ensure that confidential information is properly protected. You should submit this worksheet as a pplement to your submission of test data. This worksheet is not a substitute for submission of test data.									
Property (a)	Mark X if Provided	Attachment Number (b)		Value (c)		or E	easured Estimate // or E)	CBI Mark (X) (d)		
Physical state of neat substance					(solid)	(liquid)	(gas)			
Vapor Pressure @ Temperature		°C					Torr			
Density/relative density							g/cm3			
Solubility										
@ Temperature		°C					g/L			
Solvent										
Solubility in Water @ Temperature		°C					g/L			
Melting Temperature							°C			
Boiling / Sublimation temperature @		Torr					°C			
Spectra										
Dissociation constant										
Octanol / water partition coeffic	cient									
Henry's Law constant										
Volatilization from water										
Volatilization from soil										
pH@ concentration										
Flammability										
Explodability										
Adsorption / Coefficient										
Particle Size Distribution										
Other - Specify										