Cover Letter

On October 8, 2019, Archroma U.S., Inc. (Archroma or the Company) submitted a TSCA Section 5 Premanufacture Notice (PMN) to the U.S. Environmental Protection Agency (EPA) for the chemical substance under PMN Case Number P-20-0008. The Company understands that EPA will grant PMN clearance provided that Archroma amends the safety data sheet (SDS) included with the original PMN submission. Specifically, EPA requires the addition of a human health hazard statement at Section 15 (Regulatory Information) of the SDS. This revision to the SDS has been made and is included in this PMN amendment. No other changes have been made to this PMN.



			Form Ap	proved. O.M.B. Nos. 2	070-0012 and 2070-0038					
U.S. ENVIF	RONMENTAL PROTECTION	AGENCY		AGENCY USE ONLY						
PREMANUFACTU NOTICE			RE	Date of receipt: 02/13/2020						
PROTEIN	PA FOR NEW C	TANCES								
When completed, send this	completed, Document Control Office (7407M) Office of Pollution Prevention and Toxics Office of Pollution Prevention and Toxics Office of Pollution Prevention and Toxics Office of Pollution Prevention and Toxics			Submission Report Number						
form to:	WASHINGTON, D.C. 20460 Contact Numbers: 202-564-8930/8940	WASHINGTON, D.C								
Total Numbe	r of Pages		TS Number							
26			AR19P2							
			AL INSTRUCTIONS							
Before you co (TSCA) InformIf a fee has be	,									
appear on you	appear on your corresponding fee remittance. For mailing address information see the Help instructions in the e-PMN tool.									

Part I - GENERAL INFORMATION

You must provide the currently correct Chemical Abstracts (CA) Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submission will not be complete and the review will not begin until EPA receives this information. A letter in support of your submission should reference your TS 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.

TEST DATA AND OTHER DATA

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 included in this notice)									
		ŕ								
X	Environmental fate data	Other Data								
Χ	Health effects data	Risk Assessments								
X	Environmental effects data	Structure/activity relationships								
X	Physical/Chemical Properties (A physical and located on the last page of this form.)	d chemical properties worksheet is								
	Test data not in the possession or control of the	submitter								
	TYPE OF NOTICE (Check On	ly One)								
X	PMN (Premanufacture Notice)									
	SNUN (Significant New Use Notice)									
	TMEA (Test Marketing Exemption Application)									
	LVE (Low Volume Exemption) @ 40 CFR 723.5	50(c)(1)								
	LOREX (Low Release/Low Exposure Exemption	n) @ 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)?									
1	# of chemicals or polymers (Prenotice Comp. 3).	munication # required, enter # on								
$\left[X\right]$	Mark (X) if any information in this notice is claim	ned 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 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:

		med in Part I, Section A is a "small business concern" as 40 CFR 700.45(c).	defined ur	nder 40 CFR 700.43 and will re	emit the					
X	The Company nan	ned in Part I, Section A will remit the fee as specified in 40	CFR 700.4	15(c).						
	This joint submission includes at least one Company which is a "small business concern" and at least one Company which is not a "small business concern," as defined under 40 CFR 700.43. The fee will be remitted with the joint submission. Any remaining balance due for this joint submission is to be paid by the secondary submitter(s).									
	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 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 manufacture	r is familiar with the terms of this section and will comply wi	ith those te	erms; and						
	The new chemica	al substance for which the notice is submitted meets all app	olicable ex	emption conditions.						
		is for an LVE in accordance with 40 CFR 723.50(c)(1), the ostance for commercial purposes within 1 year of the date of								
					Confidential					
Authorized C	pnature and title of thorized Official (Original ES/John V Massingale Date 02/13/2020									



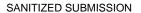
Part I GENERAL INFORMATION Section A – SUBMITTER IDENTIFICATION												
Secu	on A – Subivii i				ial" box nex	t to anv s	ubsection you clain	n as co	nfidential			
1a.	Person Su		a Notice	(in U.S			, , , , , , , , , , , , , , , , , , ,				Confidential	
Name	of Authorized Offici	al	(first) John	า			(last) Massin	gale				
Positio	on		Not Applie									
Compa	any		Archroma	U.S., Inc	;							
Mailing	g Address (number	& street)	5435 77 (Center Dr	ive, Suite 1	0						
City	Charlotte				State	NC	Postal Code	282	17			
email	john@grcci.c											
b.	Agent (if A	Applicat					(1 ()				Confidential	
Name	of Authorized Offici	al	(first)				(last)					
Positio	on											
Compa	any											
Mailing	g Address (number	& street)										
City					State		Postal Code					
e-mail						Telepho (include	ne area code)					
C.	Joint Sub	Joint Submitter (if applicable)									Confidential	
If you	are submitting this r	bmitting this notice as part of a joint submission, mark (X)										
Name	of Authorized Offici	al	(first)	st) (last)								
Positio	on											
Compa	pany											
Mailing	ng Address (number & street)											
City					State		Postal Code					
e-mail					1	Teleph (includ	one le area code)					
2.	Technical	Contac	t (in U.S	.)							Confidential	
Name	of Authorized Offici	al	(first) John	า า			(last) Massin	gale				
Positio	n		Principal									
Compa	any		Greenwic	h Chemic	al Consulti	ng, Inc.						
Mailing	g Address (number	& street)	3300 PG/	A Bouleva	ard, Suite 6	35						
City	Palm Beach	Gardens			State	FL	Postal Code	334	10			
e-mail	john@grcci.c	om				Telepho (include	ne area code)	561	5788110			
	If you have had a					3			Mark (X) if no	one	Confidential	
3.	this notice and EP enter the number.	'A assigne	d a PC Nur	nber to th	e notice,				X			
	If you previously s								Mark (X) if no	one	Confidential	
4.	chemical substance covered by this notice, enter the exemption number assigned by EPA. If you previously submitted a PMN for this substance enter the PMN number assigned by EPA (i.e. withdrawn or incomplete).								X			
	If you have submitted a notice of Bona fide intent to Mark (X) if none							one	Confidential			
5.	manufacture or im	port for the	e chemical	chemical substance covered enumber assigned by EPA.								
6.					Туре	of Notic	e – Mark (X)					
1	Manufacture Only	X			port Only			2	Poth			
1.	Binding Option]	2. Bir	nding Optio	n		3.	Both			



SANITIZED SUBMISSION



Part I – 0	GENERAL INFO	RMATION Co	ontinued						
Section B - CHEMICAL IDENTITY INFORMATION		ide a currently corrent CA index nome		tracts (CA) name of the su conventions.	ubstance				
Mark (X) the "Co	onfidential" box next t	o any item you clai	m 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 inform the name, company, and address of that person in a		ner Item 1 or 2), ma	rk (X) the box at the	he right. Identify					
 Class 1 or 2 chemical substances (for definitions 2 substances, see the Instructions Manual) 	of class 1 and class	Class '	1	Class 2	СВІ				
a. Class of substance - Mark (X)				X					
b. Chemical name (Currently correct Chemical Abs substances. For Class 1 substances a CA Index Preferred Name must be provided, which ever is	Name must be provi	ded. For Class 2 su	ibstances either a	CA Index Name or CA	X				
XXX									
CAS Registry Number (if a number already exist	s for the substance)	XXX							
c. Please identify which method you used to develo	p or obtain the speci	ified chemical ident	ity information rep	orted in this notice: (chec	k one).				
Method 1 (CAS Inventory Expert Service - a cop Identification report obtained from the CAS Inver Services must be submitted as an attachment to	tory Expert X	IES Order Number	435202	Method 2 (Other Source)					
Enter Attachment filename for Part I, Section B, 1.	C.	Sanitized Doc	ument: 2 IES-AR	19P2-SAN.pdf	X				
d. Molecular formula XXX		1		·	X				
e. For a class 1 substance, provide a complete and correct chemical structure diagram. For a class 2 substance, provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained.									
See Attachment (Sanitized Document: 1 Structure-A)	R19P2-SAN.pdf								
Enter Attachment filename for Part I, Section B, 1.	e.								





PMN Page 4a

e. (1) List the immediate precursor substance names with their respective CAS Registry Numbers. X XXX	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).						
Enter Attachment filename for Part I, Section B, 1. e. (1) e. (2) Describe the nature of the reaction or process. XXX Enter Attachment filename for Part I, Section B, 1. e. (2) e. (3) Indicate the range of composition and the typical composition (where appropriate).	e. (1) List the immediate precursor substance names with their respectiv	e CAS Registry Numbers.	X				
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e. (3) Indicate the range of composition and the typical composition (where appropriate).	xxx						
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e. (3) Indicate the range of composition and the typical composition (where appropriate).							
See analytical report.		re appropriate).					
	See analytical report.						
Enter Attachment filename for Part I, Section B, 1. e. (3) Sanitized Document: 23 Analytical Report-AR19P2- X	Francisco Attacheron Ellonomo for Port L Ocalico P. 4 o (O)	T	[V]				



PMN2020P6	PMN Page	6				
Part I GENERAI	L INFORMA	TION Co	ntinued			
Section B CHEMICAL IDENTITY INFORMATION	I Continued					
Impurities (a) - Identify each impurity that may be reasonably anticip purpose. Provide the CAS Registry Number if available (b) - Estimate the maximum weight % of each impurity. If the content of the conten	ole. If there are uni	dentified impuritie	es, enter "unidentif	fied."	rcial	
Impurity (a)		,	CAS Registr Number (a)		Confi- dential	
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	al identified in sub	section 1 or 2.				
Enter Attachment filename for Part I, Section B, 4.						
5. Trade identification - List trade names for the new chemical sul New Chemical Substance: Yellow LF 6911, Final Formulated Prod			r 2.			
Enter Attachment filename for Part I, Section B, 5.						
 Generic chemical name - If you claim chemical identify as conf specific chemical identity of the new of Substance Inventory, 1985 Edition, Ap 	chemical substance	to the maximum	extent possible. I	Refer to the TSCA Ch		
7-Heteropolycyclicsulfonic acid, 2-[4-[2-[1-[[(2-methoxy-5-methyl-4with (alkylamino)alkanol and (hydroxyalkyl)amine,	I-sulfophenyl)amin	o]carbonyl]-2-oxo	propyl]diazenyl]pł	nenyl]-6-methyl-, com	npd.	
Enter Attachment filename for Dort I. Costion D. C.						
Enter Attachment filename for Part I, Section B, 6. 7. Byproducts - Describe any byproducts resulting from the manu CAS Registry Number if available.	ıfacture, processin	g, use, or disposa	al of the new chem	nical substance. Prov	vide the	
Byproduct (1)			CAS	S Registry Number (2)	Confi- dential	
				• • • • • • • • • • • • • • • • • • • •		

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



PIVINZUZUPSXT			IN Page							
		t I GENERAL IN			Con ⁻	tinued				
Section B CHEMIC				ed						
2. Polymers (For a definitiona. Indicate the number-ave				tion of the not	lymory	ou intend to	manufaatu	ro	Confider	ntial
Indicate maximum weigh	nt percent of le	ow molecular weight speci molecular weight of that co	ies (not inclu							
	Des	cribe the methods of meas	surement or t	he basis for y	our es	timates:				
GPC	Other	(Specify Below)								
Specify Other:										
(i) lowest number average molecular weight: (ii) maximum weight % below 500 molecular weight: (iii) maximum weight % below 500 molecular weight: weight:								00 molecu	lar	
Enter Attachment filer b. You must make separate		·								
(X) the "Confidential" box ne (1) - Provide the specific manufacture of the (2) - Mark (X) this colum (3) - Indicate the typical (4) - Choose "yes" from the polymer descrip (5) - Mark (X) this colum (6) - Indicate the maximi manufactured for co	ext to any item chemical nan polymer. In if entry in considerable weight percent down the Time in if entries in the time weight percent weight percent and the time weight percent and	n you claim as confidential me and CAS Registry Nun olumn (1) is confidential. Int of each monomer or oth enu if you want a monome SCA Chemical Substance columns (3) and (4) are or reent of each monomer or rposes.	mber (if a nur ner reactant in er or other rea Inventory. confidential.	nber exists) on the polymer actant used at	f each t two w	monomer or o	other react	tant use	ed in the	
(7) - Mark (X) this colum						Typical	Include in		Max	
Monomer or other reactant specific chemical name (1)						composition (3)	identity (4)	CBI (5)	residual (6)	CBI (7)
CAS Registry I	. , ,									
CAS Degistry	Number (4)									
CAS Registry I	number (1)									
CAS Registry I	Number (1)									
0.00										
CAS Registry I						<u> </u>				Щ
Mark (X) this box if the data	continues on	the next page.								



PMN Page 5a

c. Please identify which method you used to develop or obtain t (check one).	he specified c	chemical identity informat	ion reported in this notice	СВІ
Method 1 (CAS Inventory Expert Service				
- a copy of the identification report obtained	IES Order		Method 2	
Home of the inventory Expert corvice made be	Number		(other source)	
submitted as an attachment to this notice) Enter Attachment filename for Part I, Section B, 2. c.				
d. The currently correct Chemical Abstracts (CA) name for the	polvmer that i	s consistent with TSCA I	nventory listings for similar	
polymers.				
CAS Registry Number (if a number already exists for the s				
e. Provide a correct representative or partial chemical structure ascertained.	e diagram, as	complete as can be kno	wn, if one can be reasonably	
Enter Attachment filename for Part I, Section B, 2. e.				



PMN2020P7	PMN2020P7 PMN Page 7												
Part I GI	ENER	RAL INI	FORM	ATIO	N Co	ntin	ued						
Section C PRODUCTION, IMPORT, AND	USE	INFORM	MATION	:									
The information on this page refers to consolidated	chemic	cal numbe	er(s):	X 1	2		3	4		5	6		
Mark (X) the "Con	fidentia	al" box ne	xt to any	item y			fidentia	<u></u>					
 Production volume Estimate the maximum production volume for any consecutive 12-month period during For a Low Volume Exemption application, if you change volume and mark (x) in the binding box. If granted, 	g the fire	st three ye have you	ars of prod r notice re	duction. viewed a	Estimates	should	be on 1	00% ne	w chem	ical sul	bstance	basis.	
Maximum first 12-month production (kg/yr) (100% new chemical substance basis)					ction (kg/yr ance basis		С	onfident	tial		ding Opti		
XXX	XXX							X					
Enter Attachment filename for Part I, Section C, 1.													
2. Use Information You must make separate confidentiality claims for the description of the category of use, the percent of production volume devoted													
to each category, the formulation of the new substance, and other use information. Mark (X) the "Confidential" Box next to any item you claim as confidential. a. (1)Describe each intended category of use of the new chemical substance by function and application. (2)Mark (X) this column if entry column (1) is confidential business information (CBI). (3)Indicate your willingness to have the information provided in column (1) binding. (4)Estimate the percent of total production for the first three years devoted to each category of use. (5)Mark (X) this column if entry in column (4) is confidential business information (CBI). (6)Estimate the percent of the new substance as formulated in mixtures, suspensions, emulsions, or gels as manufactured for commercial purposes at sites under your control associated with each category of use. (7)Mark (X) this column if entry in column (6) is confidential business information (CBI). (8)Indicate % of product volume expected for the listed "use" sectors. Mark more than one box if appropriate. Mark (X) to indicate your willingness to have the use type provided in (8) binding. (9)Mark (X) this column if entry(ies) in column (8) is (are) confidential business information (CBI).													
Category of use (1) Rinding Prod % in % of substance expected per 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 (9)	
	(2)	(3)	(4)	(5)	(6)	(7)	iiiiiiteu	Sulliel		merciai	Ориоп	(9)	
Dye for use with paper, paper products, and nonwoven products produced from paper.			100.0		XXX	X	0.0	0.0	100.	0.0			
* If you have identified a "consumer" use, please pro- consumer products. In addition include estimates of t the chemical reactions by which this substance loses	he conc	entration o	of the new	chemic	al substand								
Mark (X) this box if the data continues on the next page		,										1	
b. Generic use If you claim any category description Read the Instruction Mar						ential, er	nter a ge	eneric d	escriptic	on of th	at categ	ory.	
Enter Attachment filename for Part I, Section	C, 2. b.								СВ	SI		7 1	
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 are information.	of reason d to any afe hand	person wl	ho is reaso	onably li	kely to be	expose	d to this	substa	ial safet nce	у	Binding Mark		
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Part II HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE												
Section A INDUSTRIAL	SITES CO	ONTROLLE	BY THE SUBI	WITTER					Confide Calaim as			to
The information on pages 8 and						2	3		4	5		6
Complete section A for each t you control. Importers do not requirements if there are furth instructions manual 1. Operation description	have to com	plete this sec	tion for operations	outside tl	he U.S	S.; howeve	r, you	may	still have	e report	ing e	ites
a. Identity Enter the identity of the site at which the operation will occur.										der		
Name	ARCHROMA	A US INC MAR	TIN PLANT									
Site address (number and street)	788 CHERT	HERT QUARRY RD										
City	MARTIN			County			ALLEI	NDAL	.E			
State	SC			ZIP code			29836	6				
If the same operation will occu sites on a continuation sheet, operations, include all the info	and if any o	of the sites hav	e significantly diff	erent prod	duction	rates or	nal		1			
Mark (X) this box if the	data continue	es on the next p	age.									
b. Type Mark (X) Manu	ufacturing	X	Processing	X		Use)					
c. Amount and Duration	Complete	e 1 or 2 as app	oropriate								Co der	
1. Batch		(100% n sub	substance)			Hours/batch Batches/year				s/year	<u> </u>	
		XXX		XXX XXX								
2. Continuous	2. Continuous Maximum kg/day Hours/day Days/year						year					
d. Process description				Mark (X) thave your	to indic	ate your wil	lingnes on bindi	s to ing.				
 (1) Diagram the major upails, 55 gallon drum (2) Provide the identity, materials and feedst chemicals (note frequency) (3) Identify by number the releasing to two medicals 	, rail car, tand the approxim tocks (including tuency if not use the points of re	k truck, etc.). ate weight (by k ng reactants, so ised daily or per elease, including	g/day or kg/batch or lvents, catalysts, etc batch.). g small or intermitter	n a 100% n a.), and of a	ew che	mical subst cts, recycle	ance ba	asis), ns, ar	and entr	y point o . Include	f all sta clean	arting
The diagram attached here show produce the final formulated paper			v chemical substanc	e will be m	anufact	ured and p	rocesse	at t	the site id	lentified	above	to



PMN Page 8a

Diagram of the major unit operation steps.		Confidential
See Attachment Continuation Page		
Enter Attachment filename for Part II, Section A, 1. d.	See Attachment Continuation Page	



ID	Field	Process Description
Sonitized Decument: 2.1 AP40P2 Diagram SCP		
Sanitized Document: 3 1-AR19P2-Diagram-SCB: Original Document: 4 Receiving Stream Flow Ra	5-5AN t	



Ю	Field	Process Description
Sanitized Document: 3 1-AR19P2-Diagram-SCB	S-SAN	
Original Document: 4 Receiving Stream Flow Ra	t	



I with age t	,						
Part II HUMAN EXPOSURE AND ENVIRONM	/IENTAL	RELEAS	SE Cor	ntinued			
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	СВІ	Protective Equipment/	Binding Option	Physical form(s) & % new	Binding Option	СВІ	# of Workers	СВІ	Maximum	n Duration	СВІ
drums) (1)	(2)	Engineering Controls (3)	Mark (X) (4)	substance (5)	Mark (X) (6)	(7)	Exposed (8)	(9)	Hrs/Day (10)	Days/Yr (11)	(12)
Sampling		XXX		xxx		Х	4		0.5	6	
Loading into Totes		Impervious gloves, goggles, protective clothing, ventilation.		Liquid, 1.0			4		1.0	6	
Mark (X) this box	if the	data continues on the next page									



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-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		СВІ	Medium of release e.g. Stack air	Cont	rol technology a optionally	and efficie attach effi	ency (you r iciency dat	nay wish to a)	СВІ
(1)	(2a)	(2b)	(3)	(4)		(5a)		Binding Mark (X)	(5b)	(6)
1		0.002 kg/day (6 days/year)		On-site WWT		waste water trea fficiency => 0.00° /year)).			0.001 kg/day (6 days/year)	
2		34.0 kg/day (6 days/year)		On-site WWT		waste water trea fficiency => 17.0 /year)).			17.0 kg/day (6 days/year)	
				on the next page.						
(7) Mark	(X) the des	stination(s)	of releas	ses to water.				NPDES	S#	CBI
X	POTWpro name(s)	ovide	Archroma	a U.S., Inc Martin, SC Plant						
X	Navigable v - provide na		Savanna	h River			SC00428 million lit	803; 7Q10 = ers/day	= 9,120	
	OtherSpe	cify								
	Enter Attachm	ent filename	for Part II,	Section A.						



PMIN2020P10 PMIN Page 10						
Part II HUMAN EXPOSURE AND ENVIRONM	ENTAL R	ELEASE	– Conti	nue	d	
Section B INDUSTRIAL SITES CONTROLLED BY OTHERS					ı. ¬-	
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 proceed to the complete a separate section B for each type of processing, or use operation involving	ocessing or u the new che	ise activitie mical subst	s after imporance. If the	ort. Se same	ee the Instruction:	s Manual.
more than one site describe the typical operation common to these sites. Identify additional states of the typical operation common to these sites. Identify additional states of the typical operation of the section as confident confidential. (1) Diagram the major unit operation steps and chemical conversions, including pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify (2) Either in the diagram or in the text field 1(b) below, provide the identity, the chemical substance basis), and entry point of all feedstocks (including real streams, and wastes. Include cleaning chemicals (note frequency if not us that fight the provident is the second of the second operation operation of the second operation operation of the second operation op	al, bracket (ng interim sto by letter and e approximat ctants, solve ed daily or p	e.g. {}) the prage and t I briefly des e weight (b nts and cat er batch).	e specific in ransport co scribe each y kg/day or alysts, etc)	nform ontaine work r kg/ba and a	ers (specify - e.g. er activity. atch, on an 100% all products, recyc	5 gallon 5 new cle
 (3) Either in the diagram or in the text field 1(b) below, identify by number the environment of the new chemical substance. (4) Please enter the # of sites (remember to identify the locations of these site 		•	Ü	or inte	imilleni releases,	to the
	Number o		XXX		Confidential	X
1(b). (Optional) This space is for a text description to clarify the diagram above. The new chemical substance will be manufactured in the U.S. by the PMN submitter,						
distribute the final formulated product, containing the new chemical substance, directly dye in paper, paper products, and nonwoven products produced from paper.						
Note: Archroma estimates that approximately 15% of the production volume (PV) will directly exported.	be used dom	estically. T	he remaini	ng 85	% of the PV will b	ре
It is expected that there will only be one (1) level in the supply chain involving the dom by others. Archroma estimates that there will be approximately three (3) domestic indomestic indomestic that attached diagram shows the manner in which the new chemical substance is exp	ustrial sites a	t which the	new chem	ical s	ubstance will be ι	
Enter Attachment filename for Part II. Section B on the bottom of page 10a.	izod Docum	ont: 24 2 ^	D10D2 D:a	arom	SCBO SAN	<u> </u>



ID	P10SB1(a)(4)1	Field	Part II, Section B, 1(a)(4). Operation Site Locations
XXX			



N2020P10A 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		tion of osure	СВІ	Protect	ive Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	СВІ		
(1)	(2)	(3)	(4a)	(4b)	(5)		(6)		(7)	(8)		
Α	12		0.5	6		xxx			XXX	Χ		
В	12		0.5	6		XXX			XXX	Х		
С	12		1.0	50		Imperviou ventilation	Impervious gloves, goggles, protective clothing, ventilation., Liquid					
İ												
Release Number			/ Substai	nce Releas	sed	СВІ	Media of Release & Contro	l Technology		СВІ		
(9)	(10	0a)		(10b)		(11)	(12)			(13)		
1	0.0 kg/da days/	ay/site (6 year)	C).35 kg/day (6 days/ye	/site ear)		POTW POTW treatment (50% efficiency) => 0.175 kg/day/site (6 days/year) released to water.					
2	0.0 kg/day days/	v/site (25 year)	0 (.187 kg/da _! 250 days/y	y/site rear)		See continuation page. id: <p10asb2(12)c1r2></p10asb2(12)c1r2>					
3	0.0 kg/da days/	y/site (50 year)	0	.041 kg/da ₃ (50 days/y	y/site ear)		See continuation page. id: <p10asb2(12)c1< td=""><td>R3></td><td></td><td></td></p10asb2(12)c1<>	R3>				
	Mark (X) this	box if th	ne data co	ontinues or	the ne	xt page.						
(14) Byp	roducts:								(15) CBI			
	Enter Attach	ment file	name for	Part II, Se	ction B.							



ID P10ASB2(12)C1R2	Field	Part II, Section B, 2.(12) Media of Release & Ctrl Technology, Row 2
DOTA		
POTW POTW treatment (50% efficiency) => 0.094 kg/da	y/site (250) days/year) released to water.



ID P10ASB2(12)C1R3	Field	Part II, Section B, 2.(12) Media of Release & Ctrl Technology, Row 3
POTM		
POTW POTW treatment (50% efficiency) => 0.021 kg/da	ay/site (50	days/year) released to water.

SANITIZED 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.

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.

Pollution Prevention Information

- 1. The final finished dye (Cartasol Yellow 6GFC Liquid), containing the new chemical substance (Yellow LF 6911), is a high efficiency acid dye with a transfer rate from solution to paper products of 95.43% to 99.94%. See attached dye efficiency/fixation data on an analogous final finished dye.
- 2. Archroma U.S. projects that approximately 15% of the production volume (PV) of the new chemical substance will be used domestically. The remaining 85% of the PV will be directly exported. Therefore, worker exposures and environmental releases at domestic sites controlled by others will only occur with approximately 15% of the PV.
- 3. The final finished dye, containing the new chemical substance, is an expensive material. As such, there is a very strong incentive for customers to not waste any amount of material and to ensure that all material is fully removed from containers and effectively utilized during end use operations.
- 4. The Cartasol Yellow 6GFC Liquid, containing the new chemical substance, is compliant with European Union food contact regulations and thus is suitable for food contact applications.
- 5. The new chemical substance will be imported in 1,000-kg intermediate bulk containers (IBCs) and then distributed to customers for end use. Archroma understands that as part of EPA's engineering assessment, EPA will estimate a residual IBC amount of 0.2% under its Bulk Transport Residual Model.
- 6. New chemical substance was found to be negative in the local lymph node assay (LLNA) skin sensitization test (OECD 429).
- 7. The new chemical substance is a metal-free dye. This eliminates metals in wastewaters after end use.
- 8. The PMN substance will be manufactured at Archroma U.S.'s Martin, SC facility. Releases from this facility, after any pre-treatment, will be discharged to the Savannah River. For purposes of calculating the surface water concentration resulting from releases during manufacturing operations at the company's site, the 7Q10 receiving stream flow rate for the Savannah River, as identified in the company's NPDES operating permit, is 2,410 million gallons/day which equals 9,120 million liters per day (MLD). See the attached NPDES permit for the company's Martin, SC facility. The 7Q10 receiving stream flow rate is given at page 22 of the permit.



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
1	SDS on the New Chemical Substance	SDS-AR19P2-Amended-No CBI.pdf	10	Hazard Information Section (Chemical A)	
2	Structure of the New Chemical Substance	Structure-AR19P2-SAN.pdf	1	Class 1 or 2 Substances Chemical Structure Diagram (Chemical A)	
3	IES Report on the New Chemical Substance	IES-AR19P2-SAN.pdf	1	Class 1 or 2 Substances ID Method (Chemical A)	
4	Analytical Report on the New Chemical Substance	Analytical Report-AR19P2- SAN.pdf	25	B.1.e.3. Range of Composition (Chemical A)	
5	Manufacturing and Processing Information on the New Chemical Substance at Industrial Sites	1-AR19P2-Diagram-SCBS- SAN.pdf	1	Submitter Controlled Operations (SCBS)	
6	NPDES Permit for Manufacturing Site Identifying 7Q10 Receiving Stream Flow Rate	Receiving Stream Flow Rate and NPDES Permit Manufacturing	31	Submitter Controlled Operations (SCBS)	
7	End Use Information on the New Chemical Substance at Industrial Sites Controlled by Others	2-AR19P2-Diagram-SCBO- SAN.pdf	1	Industrial Sites Controlled By Others (SCBO)	
8	Study List	AR19P2-Study List.pdf	1	Additional Attachments	
9	Method Validation/Analytical Method	1-Yellow LF6911_method validation_2016-SAN.pdf	33	Additional Attachments	
10	Melting Point Test	2-Yellow LF6911_OECD102_mp_Toxi-	14	Additional Attachments	
11	Relative Density Test	3-Yellow LF6911_OECD109_density_Toxi	14	Additional Attachments	
12	Partition Coefficient Test	4-Yellow	25	Additional Attachments	
13	Water Solubility Test	5-Yellow LF6911_OECD105_water	24	Additional Attachments	
14	Flammability Test	6-Yellow LF6911_A10_flammability_Toxi-	13	Additional Attachments	
15	Relative Self-ignition Temperature Test	7-Yellow LF6911_A16_self-	14	Additional Attachments	
16	Ready Biodegradation Test	8-Yellow LF6911_OECD301D_ready	33	Additional Attachments	
17	Acute Daphnia Test	9-Yellow LF6911_OECD202_daphnia_Tox	34	Additional Attachments	
18	Algae Test	10-Yellow LF6911_OECD201_algae_Toxi-	46	Additional Attachments	
19	Acute Oral Toxicity (ATC) Test	11-Yellow	33	Additional Attachments	
20	In Vitro Skin Irritation Test	12-Yellow LF6911_OECD439_in- vitro skin irritation_Toxi-	27	Additional Attachments	
21	In Vitro Eye Irritation Test	13-Yellow	29	Additional Attachments	
	Mark (X) this box if the data continues on the n	ext page.	•	X	-

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PMN Page 12 (1)

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
22	Skin Senitization (LLNA) Test	14-Yellow LF6911_OECD429_LLNA_Toxi-	57	Additional Attachments	
23	Reverse Mutation Assay (Ames) Test	15-Yellow LF6911_OECD471_Ames_Toxi-	56	Additional Attachments	
24	Dye Efficiency Fixation Data	Dye Fixation Rates-AR19P2-No CBI.pdf	2	Optional Pollution Prevention	



IN2020P13

					L PROPER		\neg					
The information on	this	page refers to ch	emical r	number(s):	X 1	2	3	_ 4	5	6		
To assist EPA's review notice. Identify the proporoperty is claimed as corovided. These measurormulations should be you do so, as it will sim supplement to your sub	confidenced property the confidence of the confi	neasured, the value of ential. Give the attact operties should be fi ted (% PMN substant the review and ensure	of the propher had not not the near the near the the had not	perty, the units mber (found or at (100% pure) You are not re fidential inform	s in which the p n page 12) in c chemical subsequired to sub- nation is proper	property is no column (b). In the stance. Property with this work the protected the stantage of the stantage o	neasured (as The physical perties that a ksheet; howe d. You should	s necessa state of are meas ever, EPA	ary), a the ne ured fo A stror	nd whether eat substand or mixtures ngly recomr	or not to ce shou or mends t	he ld be
	perty (a)		Unit	Mark X if Provided	Attachment Number (b)		Value (c)			Measured or Estimat (M or E)	te Ma	CBI ark (X) (d)
Physical state of nea	at sub	stance		X		(solid)	(liquid)	(gas]	Measured		
Vapor Pressure @ Temperature			°C					Tori	r			
Density/relative dens	sity			X		1.27		g/cm	13	Measured		
Solubility												
@ Tempera	iture		°C					g/L				
Solv	vent											
Solubility in Water @ Temperature	2	20	°C	X		380		g/L		Measured		
Melting Temperature	9							°C				
Boiling / Sublimation emperature @	١		Torr					°C				
Spectra												
Dissociation constan	nt											
Octanol / water partit	tion c	oefficient		X		-2.12				Measured		
Henry's Law constan	nt											
Volatilization from wa	ater											
Volatilization from so	oil											
oH@ concentration												
Flammability				X		Not flamm	nable			Measured		
Explodability												
Adsorption / Coefficie	ent											
Particle Size Distribu	ıtion											
Other – Specify	Self-i	gnition		X		No self-ig point	nition up to r	nelting		Measured		



ID		Field					
	PHYSIC <i>i</i>	AL AND	CHEMICA		TIES WORKSHEET		
Pro		Mark X if Provided	Attachment Number (b)	Value (c)	Measured or Estimate (M or E)	CBI Mark (X) (d)	
Other – Specify	Decomposition Temperatu	ire			269 C	Measured	
Other – Specify							
Other – Specify							
Other – Specify							
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