Cover Letter

Per my conversation of 18 January 2022 with Emad Al-Haddad:

1. Change application to an import only application
2. move application data from amendment to Section 10A.
3. Indicate there are no sales at this time as this is a premarket notification
4. include the address of the public warehouse were the product will likely be imported to.

Form Approved. O.M.B. No. 2070-0012. Approval Expires 12/31/2022

U.S. ENVIRONMENTAL PROTECTION AGENCY			AGENCY USE ONLY
EPA	PREMANUFACTURE NOTICE FOR NEW CHEMICAL SUBSTANCES		Date of receipt: 01/19/2022
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	**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 Number of Pages	TS Number
33	583151

GENERAL INSTRUCTIONS

- You must provide all information requested in this form to the extent that it is known to or reasonably ascertainable by you. Make reasonable estimates if you do not have actual data.
- Before you complete this form, you should read the "Instructions Manual for Premanufacture Notification" (the Instructions Manual is available from the Toxic Substances Control Act (TSCA) Information Service by calling 202-554-1404, or faxing 202-554-5603).
- If a fee has been remitted for this notice (40 CFR 700.45), indicate in the boxes above the TS fee identification number you have generated. Remember, your fee ID number must also 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)

☐	Environmental fate data	☐	Other Data
☐	Health effects data	☐	Risk Assessments
X	Environmental effects data	X	Structure/activity relationships
X	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)

- X **PMN** (Premanufacture Notice)
- ☐ **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

Y — IS THIS A CONSOLIDATED PMN (Y/N)?

2 — # of chemicals or polymers (Prenotice Communication # required, enter # on p. 3).

☐ Mark (X) if any information in this notice is claimed as confidential.

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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:

- [X] The Company named in Part I, Section A is a "small business concern" as defined under 40 CFR 700.43 and will remit the fee as specified in 40 CFR 700.45(c).
- [ ] The Company named in Part I, Section A will remit the fee as specified in 40 CFR 700.45(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 manufacturer is familiar with the terms of this section and will comply with those terms; and
- [ ] The new chemical substance for which the notice is submitted meets all applicable exemption conditions.
- [ ] If this application is for an LVE in accordance with 40 CFR 723.50(c)(1), the manufacturer intends to commence manufacture of the exempted substance for commercial purposes within 1 year of the date of the expiration of the 30 day review period.

				Confidential
Signature and title of Authorized Official (Original Signature Required)	*ES/Thomas P Daly*	Date	01/19/2022	☐

Part I -- GENERAL INFORMATION

Section A – SUBMITTER IDENTIFICATION

Mark (X) the "Confidential" box next to any subsection you claim as confidential

1a.	Person Submitting Notice (in U.S.)					Confidential
Name of Authorized Official	(first) Thomas		(last) Daly			
Position	Not Applicable					
Company	CRISON, LLC					☐
Mailing Address (number & street)	2225 W HARRISON ST.					
City	CHICAGO	State	IL	Postal Code	60612	
email	tom@crison.net					

b.	Agent (if Applicable)					Confidential
Name of Authorized Official	(first) Thomas		(last) Daly			
Position	Technical Manager					
Company	CRISON, LLC					☐
Mailing Address (number & street)	2201 W Campbell Park Dr., Suite 5					
City	CHICAGO	State	IL	Postal Code	60612	
e-mail	tom@crison.net		Telephone (include area code)		7082747661	

c.	Joint Submitter (if applicable)					Confidential
If you are submitting this notice as part of a joint submission, mark (X)					☐	
Name of Authorized Official	(first)		(last)			
Position						
Company						☐
Mailing Address (number & street)						
City		State		Postal Code		
e-mail			Telephone (include area code)			

2.	Technical Contact (in U.S.)					Confidential
Name of Authorized Official	(first) Thomas		(last) Daly			
Position	Technical Manager					
Company	CRISON, LLC					☐
Mailing Address (number & street)	2201 W Campell Park Dr., Suite 5					
City	CHICAGO	State	IL	Postal Code	60612	
e-mail	tom@crison.net		Telephone (include area code)		7082747661	

			Mark (X) if none	Confidential
3.	If you have had a prenotice communication (PC) concerning this notice and EPA assigned a PC Number to the notice, enter the number.	8372	☐	☐
4.	If you previously submitted an exemption application for the 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).		☒	☐
5.	If you have submitted a notice of Bona fide intent to manufacture or import for the chemical substance covered by this notice, enter the notice number assigned by EPA.		☒	☐

6.	Type of Notice – Mark (X)						
1.	Manufacture Only ☐ Binding Option ☐	2.	Import Only ☒ Binding Option ☐	3.	Both ☐		

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Part I – GENERAL INFORMATION -- Continued

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. ☐

1. Class 1 or 2 chemical substances (for definitions of class 1 and class 2 substances, see the Instructions Manual)	Class 1	Class 2	CBI
a. Class of substance - Mark (X)	☐	☐	☐

b. Chemical name (Currently correct Chemical Abstracts (CA) Name that is consistent with TSCA Inventory listings for similar substances. For Class 1 substances a CA Index Name must be provided. For Class 2 substances either a CA Index Name or CA Preferred Name must be provided, which ever is appropriate based on current CA index nomenclature rules and conventions). ☐

CAS Registry Number (if a number already exists for the substance)

c. Please identify which method you used to develop or obtain the specified chemical identity information reported in this notice: (check one).

Method 1 (CAS Inventory Expert Service - a copy of the Identification report obtained from the CAS Inventory Expert Services must be submitted as an attachment to this notice) ☐	IES Order Number		**Method 2** (Other Source) ☐

Enter Attachment filename for Part I, Section B, 1. c. ☐

d. Molecular formula ☐

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. ☐

Enter Attachment filename for Part I, Section B, 1. e. ☐

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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).	Confidential

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 – Continued

Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

2. Polymers (For a definition of polymer, see the Instructions Manual.)

Confidential

a. Indicate the number-average weight of the lowest molecular weight composition of the polymer you intend to manufacture. Indicate maximum weight percent of low molecular weight species (not including residual monomers, reactants, or solvents) below 500 and below 1,000 absolute molecular weight of that composition. ☐

Describe the methods of measurement or the basis for your estimates:

GPC ☒ | **Other** (Specify Below) ☐

Specify Other:

(i) lowest number average molecular weight:	(ii) maximum weight % below 500 molecular weight:	(iii) maximum weight % below 1000 molecular weight:
291	85	99

Enter Attachment filename for Part I, Section B, 2. a. ☐

b. You must make separate confidentiality claims for monomer or other reactant identity, composition information, and residual information. Mark (X) the "Confidential" box next to any item you claim as confidential

(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.
(2) - Mark (X) this column if entry in column (1) is confidential.
(3) - Indicate the typical weight percent of each monomer or other reactant in the polymer.
(4) - 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.
(5) - Mark (X) this column if entries in columns (3) and (4) are confidential.
(6) - Indicate the maximum weight percent of each monomer or other reactant that may be present as a residual in the polymer as manufactured for commercial purposes.
(7) - Mark (X) this column if entry in column (6) is confidential.

Monomer or other reactant specific chemical name (**1**)	CBI (**2**)	Typical composition (**3**)	Include in identity (**4**)	CBI (**5**)	Max residual (**6**)	CBI (**7**)
Oxirane, 2-methyl-		71.0	X		0.05	
CAS Registry Number (**1**): 75-56-9						
2-Propenenitrile		13.0	X		0.05	
CAS Registry Number (**1**): 107-13-1						
2-Propanol		15.0	X		0.05	
CAS Registry Number (**1**): 67-63-0						
Hydrogen		1.0	X		0.0	
CAS Registry Number (**1**): 1333-74-0						
CAS Registry Number (**1**):						

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

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c. Please identify which method you used to develop or obtain the specified chemical identity information reported in this notice (check one).					CBI
Method 1 (CAS Inventory Expert Service - a copy of the identification report obtained from CAS Inventory Expert Service must be submitted as an attachment to this notice)	X	IES Order Number	445880-1	**Method 2** (other source) ☐	
Enter Attachment filename for Part I, Section B, 2. c.			Original Document: 1 CAS IES 445880-1 iPX1.pdf		☐

d. The currently correct Chemical Abstracts (CA) name for the polymer that is consistent with TSCA Inventory listings for similar polymers. ☐

Poly[oxy(methyl-1,2-ethanediyl)], alpha-(3-aminopropyl)-omega-(1-methylethoxy)-

CAS Registry Number (if a number already exists for the substance)	2304726-48-3	

e. Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained. ☐

See Attachment (Original Document: 2 iPX1.png
)

Enter Attachment filename for Part I, Section B, 2. e.	Original Document: 2 iPX1.png	☐

Part I -- GENERAL INFORMATION -- Continued

Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

3. Impurities
   (a) - Identify each impurity that may be reasonably anticipated to be present in the chemical substance as manufactured for commercial purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, enter "unidentified."
   (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate their total weight %.

Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	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 identified in subsection 1 or 2.
propoxy ether amine,

☐

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.
Proxamine,

☐

Enter Attachment filename for Part I, Section B, 5. ☐

6. Generic chemical name - If you claim chemical identify as confidential, you must provide a generic name for your substance that reveals the specific chemical identity of the new chemical substance to the maximum extent possible. Refer to the TSCA Chemical Substance Inventory, 1985 Edition, Appendix B for guidance on developing generic names.

Enter Attachment filename for Part I, Section B, 6.

7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of the new chemical substance. Provide the CAS Registry Number if available.

Byproduct (1)	CAS Registry Number (2)	Confi-dential
2-Propenenitrile, homopolymer	25014-41-9	

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

Part I -- GENERAL INFORMATION – Continued

Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

2. Polymers (For a definition of polymer, see the Instructions Manual.)

Confidential

a. Indicate the number-average weight of the lowest molecular weight composition of the polymer you intend to manufacture. Indicate maximum weight percent of low molecular weight species (not including residual monomers, reactants, or solvents) below 500 and below 1,000 absolute molecular weight of that composition. ☐

Describe the methods of measurement or the basis for your estimates:

GPC ☒ | **Other** (Specify Below) ☐

Specify Other:

(i) lowest number average molecular weight:	(ii) maximum weight % below 500 molecular weight:	(iii) maximum weight % below 1000 molecular weight:
303	85	99

Enter Attachment filename for Part I, Section B, 2. a. ☐

b. You must make separate confidentiality claims for monomer or other reactant identity, composition information, and residual information. Mark (X) the "Confidential" box next to any item you claim as confidential

(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.
(2) - Mark (X) this column if entry in column (1) is confidential.
(3) - Indicate the typical weight percent of each monomer or other reactant in the polymer.
(4) - 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.
(5) - Mark (X) this column if entries in columns (3) and (4) are confidential.
(6) - Indicate the maximum weight percent of each monomer or other reactant that may be present as a residual in the polymer as manufactured for commercial purposes.
(7) - Mark (X) this column if entry in column (6) is confidential.

Monomer or other reactant specific chemical name (**1**)	CBI (**2**)	Typical composition (**3**)	Include in identity (**4**)	CBI (**5**)	Max residual (**6**)	CBI (**7**)
Oxirane, 2-methyl-		69.0	X		0.005	
CAS Registry Number (**1**): 75-56-9						
1-Butanol		17.0	X		0.1	
CAS Registry Number (**1**): 71-36-3						
2-Propenenitrile		13.0	X		0.01	
CAS Registry Number (**1**): 107-13-1						
Hydrogen		1.0	X		0.0	
CAS Registry Number (**1**): 1333-74-0						
CAS Registry Number (**1**):						

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 the specified chemical identity information reported in this notice (check one).					CBI
Method 1 (CAS Inventory Expert Service - a copy of the identification report obtained from CAS Inventory Expert Service must be submitted as an attachment to this notice)	X	IES Order Number	445880-2	**Method 2** (other source) ☐	
Enter Attachment filename for Part I, Section B, 2. c.			Original Document: 4 CAS IES 445880-2 nBX1.pdf		☐

d. The currently correct Chemical Abstracts (CA) name for the polymer that is consistent with TSCA Inventory listings for similar polymers. ☐

Chemical Name:Poly[oxy(methyl-1,2-ethanediyl)], alpha-(3-aminopropyl)-omega-butoxy-

CAS Registry Number (if a number already exists for the substance)	2304726-50-7	

e. Provide a correct representative or partial chemical structure diagram, as complete as can be known, if one can be reasonably ascertained. ☐

See Attachment (Original Document: 5 nBX1.png
)

Enter Attachment filename for Part I, Section B, 2. e.	Original Document: 5 nBX1.png	☐

Part I -- GENERAL INFORMATION -- Continued

Section B -- CHEMICAL IDENTITY INFORMATION -- Continued

3. Impurities
   (a) - Identify each impurity that may be reasonably anticipated to be present in the chemical substance as manufactured for commercial purpose. Provide the CAS Registry Number if available. If there are unidentified impurities, enter "unidentified."
   (b) - Estimate the maximum weight % of each impurity. If there are unidentified impurities, estimate their total weight %.

Impurity (a)	CAS Registry Number (a)	Maximum Percent % (b)	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 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 generic name for your substance that reveals the specific chemical identity of the new chemical substance to the maximum extent possible. Refer to the TSCA Chemical Substance Inventory, 1985 Edition, Appendix B for guidance on developing generic names.

Enter Attachment filename for Part I, Section B, 6.

7. Byproducts - Describe any byproducts resulting from the manufacture, processing, use, or disposal of the new chemical substance. Provide the CAS Registry Number if available.

Byproduct (1)	CAS Registry Number (2)	Confi-dential
2-Propenenitrile, homopolymer	25014-41-9	

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

Part I -- GENERAL INFORMATION -- Continued

Section C -- PRODUCTION, IMPORT, AND USE INFORMATION:

The information on this page refers to consolidated chemical number(s): [X] **1** [ ] **2** [ ] **3** [ ] **4** [ ] **5** [ ] **6**

Mark (X) the "Confidential" box next to any item you claim as confidential.

1. Production volume -- Estimate the **maximum** production volume during the first 12 months of production. Also estimate the maximum production volume for any consecutive 12-month period during the first three years of production. Estimates should be on 100% new chemical substance basis. For a Low Volume Exemption application, if you choose to have your notice reviewed at a lower production volume than 10,000 kg/yr, specify the volume and mark (x) in the binding box. If granted, you are bound to this volume.

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)
240000	360000	[ ]	[ ]

Enter Attachment filename for Part I, Section C, 1.		CBI [ ]

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, solutions, 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**) (by function and application i.e. a dispersive dye for finishing polyester fibers)	CBI (**2**)	Binding Option Mark (X) (**3**)	Production % (**4**)	CBI (**5**)	% in Formulation (**6**)	CBI (**7**)	% of substance expected per use (**8**)					CBI (**9**)
							Site-limited	Consumer*	Industrial	Commercial	Binding Option	
See continuation page. id: <P7SC2a1C0R1>			20.0		1.5		0	0.0	100.0	0		
See continuation page. id: <P7SC2a1C0R2>			80.0		4.0		0	0	100.0	0		

* If you have identified a "consumer" use, please provide on a continuation sheet a detailed description of the use(s) of this chemical substance in consumer products. In addition include estimates of the concentration of the new chemical substance as expected in consumer products and describe the chemical reactions by which this substance loses its identity in the consumer product.

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

b. Generic use description — If you claim any category of use description in subsection 2a as confidential, enter a generic description of that category. Read the Instruction Manual for examples of generic use descriptions.

Enter Attachment filename for Part I, Section C, 2. b.		CBI [ ]

3. Hazard Information -- Include in the notice a copy of reasonable facsimile of any hazard warning statement, label, material safety data sheet, or other information which will be provided to any person who is reasonably likely to be exposed to this substance regarding protective equipment or practices for the safe handing, transport, use, or disposal of the new substance. List in part III hazard information you include.

		Binding Option Mark (X)
Mark (X) this box if you attach hazard information.	[X]	[ ]

Continuation Sheet

ID	P7SC2a1C0R1	Field	Part I, Section C, 2.a.(1) Category of Use, Row 1

Proxamine as an asphalt emulsifier: Proxamine is added to water and the pH brought down to 2, this creates a cationic surfactant (most are anionic, i.e. work in alkaline systems). The cationic surfactant is then added to bitumen (asphalt) with extreme shear to create an emulsion of the asphalt in water. Other surfactants are added to either stabilize or destabilize the emulsion so that it breaks when desired. For example, polyamines are added to destablize the emulsion, and non-ionic surfactants are added to stablize the emulsion. The emulsion is added to aggregate (rocks) in a mixing box that coats the aggregate with the emulsified asphalt. Aggregates are anionic in nature, so the aggregate reacts with the Proxamine emulsifier and creates a salt. This reaction causes the emulsion to break and the water is released, leaving the aggregate coated in just asphalt. This is the environmentally advanced way to apply maintennence coatings to roadways, parking lots and other asphalt surfaces. The Proxamine is now bound to the aggregate and not released because the salt that has formed is very stable and the Proxamine is surrounded by the aggregate and the asphalt. The only way to free the Proxamine is chemically dissolve the asphalt, or melt the asphalt. This would be extremely rare for this to happen in actual use.

Continuation Sheet

ID	P7SC2a1C0R2	Field	Part I, Section C, 2.a.(1) Category of Use, Row 2

Mining Collector:
The product of this PMN is typically added at a rate of 3-5% of the collector package. The product is added after the grinding of the ore, along with copious amounts of water to enable the flotation of the desired mineral. The product binds to the target mineral and makes it hydrophobic, enabling the dissolved gas flotation system to float the target mineral. The collected target mineral concentrate (with the product bound to them) is then sent to a metullurgy plant for further purification. The high temperature processing results in all the organics (including the product) being burned off. The resulting combustion products are scrubbed as required by the mettullurgical plants permits. A very small amount of product settles with the larger particles of ore that contain target mineral. This product goes with the gangue to the tailing ponds. The tailing ponds have there own set of permits, but are isolated with various membrane and other groundwater protection methods that are beyond the scope of this application. It is worth noting that only 3-5% of the collector package at this time is made up of the product of this PMN. The chemistry is an incremental improvement on the currently commercially practiced collection method, containing the same functional groups and similar solubilities. Thus, the product of this PMN is readily detected or measured with current monitoring at the use sites. Because the product is added at a stage where large amounts of water are also added, the current international users wash the drums with large amounts of water, and the wash water is added to the process with the prime material as it is added.

Additional information on use – Tailing Ponds:
The material that finds it way to the tailing ponds as described previously is chemically bound to the minerals in a non-reversible reaction. The tailing ponds are large settling areas where water is sometimes reused for flotation and re enters the process, other times, the tailing ponds act as storage and concentration of the solids where the water evaporates. The tailing ponds are lined with an impermeable membrane that is specified based on the geology of the site. Membranes are typically made of HDPE, high density polyethylene, in layers, and sometimes, when necessary, layers of other materials are incorporated as well to ensure that there is not seepage. The linings are designed to prevent any material contained in the tailing pond from seeping through and entering the groundwater. The solids that enter the tailing pond are occasionally evaluated for their suitability for reprocessing. In this case, the tailings would go back to the beginning of the flotation process. The tailing ponds are not part of open waterways and are not flowing into natural bodies of water.

The site of a tailings pond is primarily chosen for its proximity to the ore processing operation, the natural geography, and the geology. Once the site is chosen, the prevention of contaminants from the mining and ore processing processes falls in large measure on the tailings pond liner. Currently, liners for the waste from the concentration of the target mineral (the part of the process that the molecule of this application is used in), are multi-layer with each layer performing a function. The top layer, which is in contact with the waste as it is delivered to the tailings pond has to be resistant to the physical and chemical makeup of the discharge. The physical stresses are the pressure placed on it from the weight and the forces that result in the discharge into the tailings pond. It must be strong enough to not tear or puncture from the materials being discharged into the tailings pond. Chemically, it must not weaken or dissolve from the chemical nature of the discharged material. Secondly, it must allow water without solids (the particle size is deemed soluble is determined based on the nature of the materials, entry rate and capacity of the tailings dam to manage the flow and level of the dammed solids. The water that seeps through the first layer is pumped back into the tailings pond as it has the most solids. Intermediate layers typically perform a similar filtering function, with a reduction in solids as it passes through. The material that passes through the lower layers is pumped back to the head of the process, the grinding step. Below this section is an impermeable layer designed to prevent any seepage into the ground and hence prevent any contaminants entering the ground water.
Each tailings pond and its lining system is a unique design to ensure that the location, and materials used in its construction and lining will prevent contamination of the environment.

Continuation Sheet

ID		Field	Part I, Section C, 2.a. Additional Consumer Use Text

Category of Use: Proxamine as an asphalt emulsifier: Proxamine is added to water and the pH brought down to 2, this creates a cationic surfactant (most are anionic, i.e. work in alkaline systems). The cationic surfactant is then added to bitumen (asphalt) with extreme shear to create an emulsion of the asphalt in water. Other surfactants are added to either stabilize or destabilize the emulsion so that it breaks when desired. For example, polyamines are added to destablize the emulsion, and non-ionic surfactants are added to stablize the emulsion. The emulsion is added to aggregate (rocks) in a mixing box that coats the aggregate with the emulsified asphalt. Aggregates are anionic in nature, so the aggregate reacts with the Proxamine emulsifier and creates a salt. This reaction causes the emulsion to break and the water is released, leaving the aggregate coated in just asphalt. This is the environmentally advanced way to apply maintennence coatings to roadways, parking lots and other asphalt surfaces. The Proxamine is now bound to the aggregate and not released because the salt that has formed is very stable and the Proxamine is surrounded by the aggregate and the asphalt. The only way to free the Proxamine is chemically dissolve the asphalt, or melt the asphalt. This would be extremely rare for this to happen in actual use.
Consumer Use: null
Attachments:
Category of Use: Mining Collector:
The product of this PMN is typically added at a rate of 3-5% of the collector package. The product is added after the grinding of the ore, along with copious amounts of water to enable the flotation of the desired mineral. The product binds to the target mineral and makes it hydrophobic, enabling the dissolved gas flotation system to float the target mineral. The collected target mineral concentrate (with the product bound to them) is then sent to a metullurgy plant for further purification. The high temperature processing results in all the organics (including the product) being burned off. The resulting combustion products are scrubbed as required by the mettullurgical plants permits. A very small amount of product settles with the larger particles of ore that contain target mineral. This product goes with the gangue to the tailing ponds. The tailing ponds have there own set of permits, but are isolated with various membrane and other groundwater protection methods that are beyond the scope of this application. It is worth noting that only 3-5% of the collector package at this time is made up of the product of this PMN. The chemistry is an incremental improvement on the currently commercially practiced collection method, containing the same functional groups and similar solubilities. Thus, the product of this PMN is readily detected or measured with current monitoring at the use sites. Because the product is added at a stage where large amounts of water are also added, the current international users wash the drums with large amounts of water, and the wash water is added to the process with the prime material as it is added.

Additional information on use – Tailing Ponds:
The material that finds it way to the tailing ponds as described previously is chemically bound to the minerals in a non-reversible reaction. The tailing ponds are large settling areas where water is sometimes reused for flotation and re enters the process, other times, the tailing ponds act as storage and concentration of the solids where the water evaporates. The tailing ponds are lined with an impermeable membrane that is specified based on the geology of the site. Membranes are typically made of HDPE, high density polyethylene, in layers, and sometimes, when necessary, layers of other materials are incorporated as well to ensure that there is not seepage. The linings are designed to prevent any material contained in the tailing pond from seeping through and entering the groundwater. The solids that enter the tailing pond are occasionally evaluated for their suitability for reprocessing. In this case, the tailings would go back to the beginning of the flotation process. The tailing ponds are not part of open waterways and are not flowing into natural bodies of water.

The site of a tailings pond is primarily chosen for its proximity to the ore processing operation, the natural geography, and the geology. Once the site is chosen, the prevention of contaminants from the mining and ore processing processes falls in large measure on the tailings pond liner. Currently, liners for the waste from the concentration of the target mineral (the part of the process that the molecule of this application is used in), are multi-layer with each layer performing a function. The top layer, which is in contact with the waste as it is delivered to the tailings pond has to be resistant to the physical and chemical makeup of the discharge. The physical stresses are the pressure placed on it from the weight and the forces that result in the discharge into the tailings pond. It must be strong enough to not tear or puncture from the materials being discharged into the tailings pond. Chemically, it must not weaken or dissolve from the chemical nature of the discharged material. Secondly, it must allow water without solids (the particle size is deemed soluble is determined based on the nature of the materials, entry rate and capacity of the tailings dam to manage the flow and level of the dammed solids. The water that seeps through the first layer is pumped back into the tailings pond as it has the most solids. Intermediate layers typically perform a similar filtering function, with a reduction in solids as it passes through. The material that passes through the lower layers is pumped back to the head of the process, the grinding step. Below this section is an impermeable layer designed to prevent any seepage into the ground and hence prevent any contaminants entering the ground water.
Each tailings pond and its lining system is a unique design to ensure that the location, and materials used in its construction and lining will prevent contamination of the environment.
Consumer Use: null

Continuation Sheet

ID		Field	Part I, Section C, 2.a. Additional Consumer Use Text

Attachments:

Part I -- GENERAL INFORMATION -- Continued

Section C -- PRODUCTION, IMPORT, AND USE INFORMATION:

The information on this page refers to consolidated chemical number(s): ☐ **1** ☒ **2** ☐ **3** ☐ **4** ☐ **5** ☐ **6**

Mark (X) the "Confidential" box next to any item you claim as confidential.

1. Production volume -- Estimate the **maximum** production volume during the first 12 months of production. Also estimate the maximum production volume for any consecutive 12-month period during the first three years of production. Estimates should be on 100% new chemical substance basis. For a Low Volume Exemption application, if you choose to have your notice reviewed at a lower production volume than 10,000 kg/yr, specify the volume and mark (x) in the binding box. If granted, you are bound to this volume.

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)
240000	360000	☐	☐

Enter Attachment filename for Part I, Section C, 1.	Original Document: 6 Proxmine nB51 SDS.pdf	CBI ☐

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, solutions, 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**) (by function and application i.e. a dispersive dye for finishing polyester fibers)	CBI (**2**)	Binding Option Mark (X) (**3**)	Production % (**4**)	CBI (**5**)	% in Formulation (**6**)	CBI (**7**)	% of substance expected per use (**8**)					CBI (**9**)
							Site-limited	Consumer*	Industrial	Commercial	Binding Option	
Mining collector, see application information for previous consolidated chemical.			80.0		3.0		0	0	100.0	0		
asphalt emulsifier. See use data given for previous consolidated chemical.			20.0		2.0		0	0	100.0	0		

* If you have identified a "consumer" use, please provide on a continuation sheet a detailed description of the use(s) of this chemical substance in consumer products. In addition include estimates of the concentration of the new chemical substance as expected in consumer products and describe the chemical reactions by which this substance loses its identity in the consumer product.

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

b. Generic use description — If you claim any category of use description in subsection 2a as confidential, enter a generic description of that category. Read the Instruction Manual for examples of generic use descriptions.

Enter Attachment filename for Part I, Section C, 2. b.		CBI ☐

3. Hazard Information -- Include in the notice a copy of reasonable facsimile of any hazard warning statement, label, material safety data sheet, or other information which will be provided to any person who is reasonably likely to be exposed to this substance regarding protective equipment or practices for the safe handing, transport, use, or disposal of the new substance. List in part III hazard information you include.

Mark (X) this box if you attach hazard information. ☐	Binding Option Mark (X) ☐

Continuation Sheet

ID		Field	Part I, Section C, 2.a. Additional Consumer Use Text

Category of Use: Mining collector, see application information for previous consolidated chemical.
Consumer Use: null
Attachments:
Category of Use: asphalt emulsifier. See use data given for previous consolidated chemical.
Consumer Use: null
Attachments:

Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE

Section A -- INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER

Mark (X) the "Confidential" box next to any item you claim as confidential

The information on pages 8 and 8a refer to consolidated chemical number(s): ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6

Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at industrial sites you control. Importers do not have to complete this section for operations outside the U.S.; however, you may still have reporting requirements if there are further industrial processing or use operations after import. You must describe these operations. See instructions manual

1. Operation description
   a. Identity -- Enter the identity of the site at which the operation will occur.

				Confi-dential
Name				
Site address (number and street)				☐
City		County		
State		ZIP code		

If the same operation will occur at more than one site, enter the number of sites. Identify the additional sites on a continuation sheet, and if any of the sites have significantly different production rates or operations, include all the information requested in this section for those sites as attachments. → ☐

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

b. Type -- Mark (X) Manufacturing ☐ Processing ☐ Use ☐ ☐

c. Amount and Duration -- Complete 1 or 2 as appropriate

				Confi-dential
1. Batch	Maximum kg/batch (100% new chemical substance)	Hours/batch	Batches/year	☐
2. Continuous	Maximum kg/day (100% new chemical substance)	Hours/day	Days/year	☐

d. Process description — Mark (X) to indicate your willingness to have your process description binding. → ☐

(1) Diagram the major unit operation steps and chemical conversions. Include interim storage and transport containers (specify- e.g. 5 gallon pails, 55 gallon drum, rail car, tank truck, etc.).
(2) Provide the identity, the approximate weight (by kg/day or kg/batch on a 100% new chemical substance basis), and entry point of all starting materials and feedstocks (including reactants, solvents, catalysts, etc.), and of all products, recycle streams, and wastes. Include cleaning chemicals (note frequency if not used daily or per batch.).
(3) Identify by number the points of release, including small or intermittent releases, to the environment of the new chemical substance. If releasing to two media at the same step, assign a second release number for the second medium.

☐

PMN Page 8a

Diagram of the major unit operation steps.	Confidential ☐

Enter Attachment filename for Part II, Section A, 1. d.	☐

Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE -- Continued

Section A -- INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER -- Continued

The information on pages 9 and 9a refer to consolidated chemical number(s): ☐ 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) (1)	CBI (2)	Protective Equipment/ Engineering Controls (3)	Binding Option Mark (X) (4)	Physical form(s) & % new substance (5)	Binding Option Mark (X) (6)	CBI (7)	# of Workers Exposed (8)	CBI (9)	Maximum Duration		CBI (12)
									Hrs/Day (10)	Days/Yr (11)	

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

Enter Attachment filename for Part II, Section A on the bottom of page 9a. ☐

PMN Page 9a

3. Environmental Release and Disposal -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.

(1) -- Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3).
(2) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch).
(3) -- Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI).
(4) -- Identify the media (stack air, fugitive air (optional-see Instruction Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
(5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
(6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
(7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

Release Number	Amount of New Substance Released		CBI	Medium of release e.g. Stack air	Control technology and efficiency (you may wish to optionally attach efficiency data)			CBI
(1)	(2a)	(2b)	(3)	(4)	(5a)	Binding Mark (X)	(5b)	(6)
Mark (X) this box if the data continues on the next page.							☐	

(7) Mark (X) the destination(s) of releases to water.		NPDES#	CBI
☐ POTW--provide name(s)			☐
☐ Navigable waterway- - provide name(s)			☐
☐ Other--Specify			☐
Enter Attachment filename for Part II, Section A.			☐

Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE – Continued

Section B -- INDUSTRIAL SITES CONTROLLED BY OTHERS

The information on pages 10 and 10a refer to consolidated chemical number(s): [X] **1** [X] **2** [ ] **3** [ ] **4** [ ] **5** [ ] **6**

Complete section B for typical processing or use operations involving the new chemical substance at sites you do not control. Importers do not have to complete this section for operations outside the U.S.; however, you must report any processing or use activities after import. See the Instructions Manual. *Complete a separate section B for each type of processing, or use operation involving the new chemical substance*. If the same operation is performed at more than one site describe the typical operation common to these sites. Identify additional sites on a continuation sheet.

1(a). Operation Description -- To claim information in this section as confidential, bracket (e.g. {}) the specific information that you claim as confidential.

(1) -- Diagram the major unit operation steps and chemical conversions, including interim storage and transport containers (specify - e.g. 5 gallon pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify by letter and briefly describe each worker activity.

(2) -- 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).

(3) -- 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.

(4) -- Please enter the # of sites (remember to identify the locations of these sites on a continuation sheet):

	Number of Sites	2	Confidential [ ]

See Attachment Continuation Page

1(b). (Optional) This space is for a text description to clarify the diagram above. Confidential [ ]

Product will be wholly manufactured in Mexico initially and imported. I predict the product will be manufactured at Quimi Kao SA, de C.V., Km. 22.5 Carr. Guadalajara - El Salto El Salto, Jalisco 45680 Mexico. Product will be imported through Laredo, TX.

There are no customers at this time, but target customers are the iron ore mines in the USA.

Please see the attached flow diagrams and description.

Enter Attachment filename for Part II, Section B on the bottom of page 10a.	See Attachment Continuation Page [ ]

Continuation Sheet

ID		Field	Process Description

Original Document: 7 Flow Diagram description ...
Original Document: 8 Proxamine iPX1 Flow Diagr...
Original Document: 9 Proxamine nBX1 Flow Diagr...

Continuation Sheet

ID		Field	Process Description

Original Document: 7 Flow Diagram description ...

Original Document: 8 Proxamine iPX1 Flow Diagr...

Original Document: 9 Proxamine nBX1 Flow Diagr...

Continuation Sheet

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

CITY OF COLUMBIA BRIDGE LAREDO
1 4 MILE SOUTH OF FM 1472 ON FM 255
LAREDO, TX 78041

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	CBI	Duration of Exposure		CBI	Protective Equip./Engineering Controls/Physical Form	% new substance	% in Formulation	CBI
(1)	(2)	(3)	(4a)	(4b)	(5)	(6)	(6)	(7)	(8)
Container	1		0.0825	365		See continuation page. id: <P10ASB2(6)C1R1>	80	4	

Release Number	Amount of New Substance Released		CBI	Media of Release & Control Technology	CBI
(9)	(10a)	(10b)	(11)	(12)	(13)

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

(14) Byproducts: | **(15) CBI** ☐

Enter Attachment filename for Part II, Section B. ☐

Continuation Sheet

ID	P10ASB2(6)C1R1	Field	Part II, Section B, 2.(6) Protective Equip./Eng. Controls, etc., Row 1

One of the benefits of the molecules in this application is that they are liquid, stable and can be pumped directly from a tote, drum, or isotank into the addition point of the process, without being neutralized. This is not true of the current collectors in use. By being able to pump the material directly from the container in which it is supplied, into the process, limits worker exposure. The exposure is limited by using proper PPE as outlined already, but basically, splash goggles, gloves and general protective clothing. Second, the only interaction needed is to connect the hose connector of the hose that feeds the pump. These are quick connect hoses that have minimal interaction. The valve for the tote or iso, or the positioning of the drum prevents worker contact with the product at this stage. Unless equipment failure, there will be no exposure to the worker., Liquid

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.

Enter Attachment filename for Pollution Prevention Page 11.		☐

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	CBI
1	MSDS	Proxmine iP51 SDS.pdf	6	Hazard Information Section (Proxamine-i)	
2	Structure	iPX1.png	1	Polymers Identification Substances Chemical Structure Diagram	
3	IES Report	CAS IES 445880-1 iPX1.pdf	1	Polymers Identification Substances ID Method (Proxamine-i)	
4	nB51 MSDS	Proxmine nB51 SDS.pdf	6	Production Information Section (Proxamine-nB)	
5	structure image	nBX1.png	1	Polymers Identification Substances Chemical Structure Diagram	
6	IES Report	CAS IES 445880-2 nBX1.pdf	1	Polymers Identification Substances ID Method (Proxamine-nB)	
7	Flow diagram description.	Flow Diagram description nB and i.txt	1	Industrial Sites Controlled By Others (Mexican)	
8	Proxamine i flow diagram	Proxamine iPX1 Flow Diagram.pdf	1	Industrial Sites Controlled By Others (Mexican)	
9	Proxamine nB flow diagram	Proxamine nBX1 Flow Diagram.pdf	1	Industrial Sites Controlled By Others (Mexican)	
10	Worker Exposure and Mining application	Worker Exposure 5-11-2021.txt	1	Additional Attachments	
11	Provides additional information about manufacturing the product.	Additional Manufacturing information 5-11-2021.txt	1	Additional Attachments	

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

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PHYSICAL AND CHEMICAL PROPERTIES WORKSHEET

The information on this page refers to chemical number(s): [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6

To assist EPA's review of physical and chemical properties data, please complete the following worksheet for data you provide and include it in the notice. Identify the property measured, the value of the property, the units in which the property is measured (as necessary), and whether or not the property is claimed as confidential. Give the attachment number (found on page 12) in column (b). The physical state of the neat substance should be provided. These measured properties should be for the neat (100% pure) chemical substance. Properties that are measured for mixtures or formulations should be so noted (% PMN substance in __). You are not required to submit this worksheet; however, EPA strongly recommends that you do so, as it will simplify the review and ensure that confidential information is properly protected. You should submit this worksheet as a supplement to your submission of test data. This worksheet is not a substitute for submission of test data.

Property (a)		Unit	Mark X if Provided	Attachment Number (b)	Value (c)			Measured or Estimate (M or E)	CBI Mark (X) (d)
					(solid)	(liquid)	(gas)		
Physical state of neat substance			[ ]		[ ]	[ ]	[ ]		
Vapor Pressure @ Temperature		°C	[ ]				Torr		
Density/relative density			[X]		0.972		g/cm3	Measured	
Solubility			[ ]				g/L		
@ Temperature		°C							
Solvent									
Solubility in Water @ Temperature		°C	[ ]				g/L		
Melting Temperature			[X]		< -23		°C	Measured	
Boiling / Sublimation temperature @	760	Torr	[X]		407		°C	Estimate	
Spectra			[ ]						
Dissociation constant			[ ]						
Octanol / water partition coefficient			[ ]						
Henry's Law constant			[ ]						
Volatilization from water			[ ]						
Volatilization from soil			[ ]						
pH@ concentration			[ ]						
Flammability			[ ]						
Explodability			[ ]						
Adsorption / Coefficient			[ ]						
Particle Size Distribution			[ ]						
Other – Specify			[ ]						

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The information on this page refers to chemical number(s): ☐ 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6

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Property (a)		Unit	Mark X if Provided	Attachment Number (b)	Value (c)			Measured or Estimate (M or E)	CBI Mark (X) (d)
					(solid)	(liquid)	(gas)		
Physical state of neat substance			☐		☐	☐	☐		
Vapor Pressure @ Temperature		°C	☐				Torr		
Density/relative density			☒		0.972		g/cm3	Measured	
Solubility			☐				g/L		
@ Temperature		°C							
Solvent									
Solubility in Water @ Temperature	25	°C	☒		1.2		g/L	Measured	
Melting Temperature			☒		< -23		°C	Measured	
Boiling / Sublimation temperature @	760	Torr	☒		> 200		°C	Measured	
Spectra			☐						
Dissociation constant			☐						
Octanol / water partition coefficient			☐						
Henry's Law constant			☐						
Volatilization from water			☐						
Volatilization from soil			☐						
pH@ concentration			☐						
Flammability			☐						
Explodability			☐						
Adsorption / Coefficient			☐						
Particle Size Distribution			☐						
Other – Specify			☐						