National Pollutant Release Inventory (NPRI) and Partners





Inventory (NPRI) and Partners Home **Submission Management** Help My Profile:Roland Verkaik Logout Ec.gc.ca SWIM > 2012 > Alltech Inc. > Alexandria Bioscience Centre (Update 3) > Report Preview * indicates a required field, ** indicates a conditionally required field Plan Summary Preview Company Details Company Legal Name Alltech Inc. Company Address 181 Bishop Street, Alexandria (Ontario) Report Details NPRI ID 5945 Facility Name Alexandria Bioscience Centre Facility Address 181 Bishop Street, Alexandria (Ontario) **Update Comments** include certifications **Activities** Contacts Select the Facility Contacts **Facility Contacts** Please assign the appropriate contact under each category below. Public Contact: * Roland Verkaik Highest Ranking Employee Jeannine Leroux Person responsible for Toxic Substance Reduction Plan preparation Roland Verkaik Organization Validation Company and Parent Company Information Company Details Company Legal Name: * Alltech Inc. Company Trade Name: * Alltech Inc. Business Number: * 869680983 Mailing Address

Address Line 1

Rural Route Number

Delivery Mode

PO Box

181 Bishop Street

General Delivery

City *	Alexandria
Province/Territory **	Ontario
Postal Code: **	K0C1A0
Physical Address	
Address Line 1	181 Bishop Street
City	Alexandria
Province/Territory **	Ontario
Postal Code **	K0C1A0
Additional Information	
Land Survey Description	
National Topographical Description	
Parent Companies	
Alltech Inc.	
Company Legal Name: *	Alltech Inc.
Percentage owned: *	100
Business Number: **	869680983
Mailing Address	
Delivery Mode	General Delivery
PO Box	
Rural Route Number	
Address Line 1	3032 Catnip Hill Pike
City *	Nicholasville Lexington
Province/Territory **	Kentucky
Postal Code: **	40356
Country *	
Physical Address	
Address Line 1	
City	
Province/Territory **	
Postal Code **	
Country	
Additional Information	
Land Survey Description	
National Topographical Description	

Facility Validation

The information in this section was copied from the Single Window Information Manager (SWIM) at the time the plan summary was created. Please verify the information and update it where required. Please note that any changes made here will only be reflected in this plan summary. To ensure updates reflected in future reports, please ensure the information is updated in SWIM. After making updates in SWIM, return here and click the "Refresh" button to trigger a reload of the SWIM information. Please note all previously entered data will be modified.

Facility Information		
Facility Name: *	Alexandria Bioscience Centre	
NAICS Code: *		311119
NPRI Id: *		0000005945
ON Reg 127/01 Id		
Facility Mailing Address		
Delivery Mode	General Delivery	
PO Box		
Rural Route Number		
Address Line 1		
City *	Alexandria	
Province/Territory **	Ontario	
Postal Code: **	KOC 1A0	
Physical Address		
Address Line 1	181 Bishop Street	
City	Alexandria	
Province/Territory **	Ontario	
Postal Code **	K0C1A0	
Additional Information		
Land Survey Description		
National Topographical Description		
NPRI Facility Location		
Latitude (decimal degrees) *	45.31630	
Longitude (decimal degrees) *	-74.63630	
UTM Zone	18	
UTM Easting	528518	
UTM Northing	5018159	

Contact Validation

The information in this section was copied from the Single Window Information Manager (SWIM) at the time the plan summary was created. Please verify the information and update it where required. Please note that any changes made here will only be reflected in this plan summary. To ensure updates reflected in future reports, please ensure the information is updated in SWIM. After making updates in SWIM, return here and click the "Refresh" button to trigger a reload of the SWIM information. Please note all previously entered data will be modified.

С

Contacts	
Public Contact	
First Name: *	Jeannine
Last Name: *	Leroux
Position: *	Operations Manager
Telephone: *	6135250096
Ext	

Fax	
Email: *	jleroux@alltech.com
Mailing Address	
Delivery Mode	General Delivery
PO Box	
Rural Route Number	
Address Line 1	181 Bishop Street North
City *	Mississauga
Province/Territory **	Ontario
Postal Code: **	L4Y3P2
Highest Ranking Employee	
First Name: *	Jeannine
Last Name: *	Leroux
Position: *	Operations Manager
Telephone: *	6135250096
Ext	
Fax	6135255185
Email: *	jleroux@alltech.com
Mailing Address	
Delivery Mode	General Delivery
PO Box	
Rural Route Number	
Address Line 1	181 Bishop Street
City *	Alexandria
Province/Territory **	Ontario
Postal Code: **	K0C1A0
Person responsible for the Toxic Substance Reduction Plan prepa	ration
First Name: *	Roland
Last Name: *	Verkaik
Position: *	Consultant
Telephone: *	4165281600
Ext	
Fax	
Email: *	rolandverkaik@rogers.com
Mailing Address	
Delivery Mode	
РО Вох	

Rural Route Number	
Address Line 1	3631 Flamewood Drive
City *	Mississauga
Province/Territory **	Ontario
Postal Code: **	L4Y3P2
Employees	
Employees	
Number of Full-time Employees: * 28	
Copy of Certifications of Plan	
Copy of Certifications of Plan	
Upload Document	
A copy of the certification statement(s) from the Highest Ranking Em Plan for which the Plan Summary is being submitted are required. Plan Do not upload any certification statements that are dated after December	
Comments	
Website address where the Plan Summary is posted for the public	
File Name *	Date *
TRA Plan Certifications 2013.pdf	06/04/2018 1:39:35 PM
Plan Summary Submission	
Electronic Submission	
Company Name	
Alltech Inc.	
Facility Name	
Alexandria Bioscience Centre	
Report Submitted By (authorized delegate)	
Roland Verkaik	
I, the authorized delegate, acknowledge that by pressing th Summary for the identified facility.	ne "Continue" button, I am electronically submitting the facility TRA Plan
	re "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility.	e "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility. Substances	e "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility. Substances NA - 06, Copper (and its compounds)	ne "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility. Substances NA - 06, Copper (and its compounds) NA - 06, Copper (and its compounds)	re "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility. Substances NA - 06, Copper (and its compounds) NA - 06, Copper (and its compounds) Substances Section Data	re "Continue" button, I am electronically submitting the facility TRA Plan
Summary for the identified facility. Substances NA - 06, Copper (and its compounds) NA - 06, Copper (and its compounds) Substances Section Data Statement of Intent	

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: ***

Alltech Inc. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of Copper, Manganese, Zinc and PM10 in full compliance with all Federal and Provincial Regulations. Our employees are encouraged to participate in all toxic use reduction activities. Toxic use reduction will be an

product will be impro- accounting of material efforts.	or	Quantity This reduction? * years	•	Unit		
product will be impro- accounting of material efforts. se Targets What is the targeted No quantity target What is the targeted No timeline target	or	Quantity this reduction? *	•	Unit		
product will be impro- accounting of material efforts. See Targets What is the targeted No quantity target What is the targeted	or	Quantity	•	Unit		
product will be impro- accounting of material efforts. se Targets What is the targeted No quantity target			•	Unit		
product will be impro- accounting of material efforts. Se Targets What is the targeted No quantity	reduction in u		•	Unit		
product will be impro- accounting of material efforts.	reduction in u	ise of the toxic substance at th	ne facility? *			
and recycling possibil	ities may be rene future. 3 The ved to provide	o landfill. In addition, re-use evisited to determine if this e recording system for waste a more detailed and accurate d evaluation of toxic reduction				
determine whether in possible. Three areas variables, in particula waste product tailing potential to minimize operations. 2 Method reviewed to reduce of	provements a that will be in r dryer setting will be investi the waste tail s to improve o perator error a	re technically or economically overstigated are: 1 Process is, effecting the generation of gated to determine the ings produced during batch perator training will be and off-spec products which				
Where technically and the loss of minerals of extent possible. A rev potential efficiencies	l economically opper mangar view of the pro that may redu	lved in toxic use reduction. feasible, our goal is to reduce nese and zinc to the greatest duction process has identified ce losses through waste. required beforehand to				
Objectives in plan: *						
ojectives	3 COOMPHON					
ectives, Targets and I						
If 'no', reason in the fa		n for no intent to reduce the cre	ation of the toxic	substance at the f	facility: **	
ir yes, exact statemer	it of the interio	that is included in the facility's	TIVA FIGHT to Feduce	s the creation of t	The toxic substance (at the racinty.
If 'yes' exact statemen	at of the intent	that is included in the facility's	TDA Plan to roduc	o the creation of t	ho tovic substance	at the facility: **
E .	at the owner	or operator of the facility intende	s to reduce the cr	eation of the toxid	c substance at the f	acility?: *
reation						
	cility's TRA Pla	n for no intent to reduce the use	of the toxic subs	iance at the facilit	cy: **	
If `no', reason in the fa						
at our facility. If 'no', reason in the fa						

Creation Targets

reductions will be implemented.

What is the targeted reduction in creation of the toxic substance at the facility? *

feasible have been completed. It is expected that these studies will be concluded by December 2014 at which time feasible toxic

No quantity target		Quantity	Unit
 ✓	or		

No timeline target	years
. ✓ or	
Description of Target	
Reasons for Use	
Why is the toxic substance used at	t the facility?: *
As a formulation component	
Summarize why the toxic substance	ce is used at the facility: **
ingredient of product	
Reasons for Creation	
Why is the toxic substance created	I at the facility?: *
This substance is not created at t	the facility
Summarize why the toxic substance	re is created at the facility: **

Toxic Reduction Options for Implementation

Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: *

Yes, we are not implementing

If you answered " \mathbf{No} " to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.).

If you answered "Yes" please select the appropriate reason(s) in the picklist below for why no option was implemented for this substance at your facility. You may choose to provide an explanation in the text box that is beneath the picklist.

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Empty

Identify at least one reason why no option to reduce the use or creation of this substance was implemented at your facility:

Select the applicable reason or reasons **

Explanation of the reasons why no option will be implemented

At this time no reductions are possible until studies to determine whether improvements that are technically or economically feasible have been completed. It is expected that these studies will be concluded by December 2014 at which time feasible toxic reductions will be implemented.

Rationale for why the listed options were chosen for implementation

	eneral description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance : the facility that are outside of the plan
	cense Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this ubstance (format TSRPXXXX): *
Т	TSRP0016
	ame of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First ame Last Name)
	cense Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format SRPXXXX): *
Т	TSRP0016
	ame of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last ame)
WI	hat version of the plan is this summary based on?: *
	Reviewed Plan
NA - 09, I	Manganese (and its compounds)
NA - 09, N	Manganese (and its compounds)
Substan	ices Section Data
Staten	nent of Intent
Are t	the following included in the Facility's TRA Plan?
Use	
	there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: * Yes
If	'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: **
t t F F t c	Alltech Inc. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of Copper, Manganese, Zinc and PM10 in full compliance with all Federal and Provincial Regulations. Our employees are encouraged to participate in all toxic use reduction activities. Toxic use reduction will be an ongoing effort for Alltech, and we will continue to monitor technological advancements to ensure that reduction options that are both technological and financially viable are implemented at our facility.
16	\no' reason in the facility's TDA Dlan for no intent to reduce the use of the toyic substance at the facility: **

Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: *

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: **

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: ** toxic substance is not created

Objectives, Targets and Description

Objectives

Objectives in plan: *

All employees at Alltech will be involved in toxic use reduction. Where technically and economically feasible, our goal is to reduce the loss of minerals copper manganese and zinc to the greatest extent possible. A review of the production process has identified potential efficiencies that may reduce losses through waste. However preliminary studies will be required beforehand to determine whether improvements are technically or economically possible. Three areas that will be investigated are: 1 Process variables, in particular dryer settings, effecting the generation of waste product tailing will be investigated to determine the

potential to minimize the waste tailings produced during batch operations. 2 Methods to improve operator training will be reviewed to reduce operator error and off-spec products which cause additional waste to be sent to landfill. In addition, re-use and recycling possibilities may be revisited to determine if this could be feasible in the future. 3 The recording system for waste product will be improved to provide a more detailed and accurate accounting of material in order to aid evaluation of toxic reduction efforts.

Use Targets

What is the targeted r	eduction in us	se of the toxic substance at t	he facility? *		
No quantity target		Quantity		Unit	
⋉	or				
What is the targeted t	imeframe for	this reduction? *			
No timeline target		years			
M	or				
Description of targets					
whether improvements feasible have been con	s that are tech mpleted. It is e ecember 2014	ole until studies to determine nically or economically expected that these studies at which time feasible toxic			
Creation Targets					
What is the targeted r	eduction in cr	reation of the toxic substance	e at the facility?	*	
No quantity target		Quantity		Unit	
M	or		8		
What is the targeted t No timeline target	imeframe for	this reduction? *			
V	or		8		
Description of Target					
Reasons for Use					
Why is the toxic substa	nce used at the	e facility?: *			
As a formulation comp					
Summarize why the tox	ic substance is	s used at the facility: **	•		
ingredient of product					
Reasons for Creation					
Why is the toxic substan	nce created at	the facility?: *			
This substance is not of					
Summarize why the tox	ic substance is	created at the facility: **			

Toxic Reduction Options for Implementation

Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: *

Yes, we are not implementing

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.).

If you answered "Yes" please select the appropriate reason(s) in the picklist below for why no option was implemented for this substance at your facility. You may choose to provide an explanation in the text box that is beneath the picklist. Materials or feedstock substitution Empty Product design or reformulation Empty Equipment or process modifications **Empty** Spill or leak prevention **Empty** On-site reuse, recycling or recovery Empty Improved inventory management or purchasing techniques **Empty** Good operator practice or training Empty Identify at least one reason why no option to reduce the use or creation of this substance was implemented at your facility: Select the applicable reason or reasons ** Explanation of the reasons why no option will be implemented At this time no reductions are possible until studies to determine whether improvements that are technically or economically feasible have been completed. It is expected that these studies will be concluded by December 2014 at which time feasible toxic reductions will be implemented. Rationale for why the listed options were chosen for implementation General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): * TSRP0016 Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name) License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX): * TSRP0016 Name of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last What version of the plan is this summary based on?: * Reviewed Plan

NA - 14, Zinc (and its compounds)

NA - 14, Zinc (and its compounds)

Substances Section Data

Statement of Intent

Are the following included in the Facility's TRA Plan?

Use

Is there a statement the	nat the owner o	or operator of the facility intend	ds to reduce the use of the toxic substance at the facility?: *
Yes			
If 'yes', exact statemen	nt of the intent	that is included in the facility's	TRA Plan to reduce the use of the toxic substance at the facility: **
the environment. Wh the use, creation and PM10 in full complian Regulations. Our emp toxic use reduction ac ongoing effort for Allt technological advance	enever feasible discharge of C ce with all Fede bloyees are enc ctivities. Toxic u ech, and we wi ements to ensu	a leadership role in protecting , we will eliminate, or reduce copper, Manganese, Zinc and ral and Provincial ouraged to participate in all use reduction will be an Il continue to monitor are that reduction options incially viable are implemented	
If 'no', reason in the fa	cility's TRA Plai	n for no intent to reduce the use	se of the toxic substance at the facility: **
Creation			
Is there a statement the No	nat the owner o	r operator of the facility intend	ds to reduce the creation of the toxic substance at the facility?: st
If 'yes', exact statemen	nt of the intent	that is included in the facility's	TRA Plan to reduce the creation of the toxic substance at the facility: **
If 'no', reason in the fa		n for no intent to reduce the cre	reation of the toxic substance at the facility: **
ejectives, Targets and	Description		
Objectives			
Objectives in plan: *			
the loss of minerals of extent possible. A responsible in the potential efficiencies however preliminary determine whether in possible. Three areas variables, in particula waste product tailing potential to minimize operations. 2 Method reviewed to reduce of cause additional wastend recycling possibilicould be feasible in the product will be impro	copper mangan view of the pro- that may reduce studies will be approvements and that will be in a dryer settings will be investig the waste tailing to improve of perator error and the to be sent to ities may be re- the future. 3 The yed to provide	feasible, our goal is to reduce ese and zinc to the greatest duction process has identified the losses through waste. required beforehand to the technically or economically exestigated are: 1 Process is, effecting the generation of grated to determine the engs produced during batch operator training will be end off-spec products which is landfill. In addition, re-use existed to determine if this expressible to determine if this expressible a more detailed and accurate devaluation of toxic reduction	
Use Targets What is the targeted	reduction in u	se of the toxic substance at t	the facility? *
No quantity target		Quantity	Unit
M	or		
What is the targeted No timeline	timeframe for	this reduction? *	
target 	or		
	Oi		
Description of targets		de contractor de la con	1
whether improvemen feasible have been co	ts that are tech empleted. It is December 2014	ole until studies to determine inically or economically expected that these studies at which time feasible toxic	

What is the targeted reduction in creation of the toxic substance at the facility? * Unit No quantity Quantity target W What is the targeted timeframe for this reduction? * No timeline vears target Lyd. Description of Target Reasons for Use Why is the toxic substance used at the facility?: * As a formulation component Summarize why the toxic substance is used at the facility: ** ingredient of product Reasons for Creation Why is the toxic substance created at the facility?: * This substance is not created at the facility Summarize why the toxic substance is created at the facility: ** Toxic Reduction Options for Implementation Description of the toxic reduction option(s) to be implemented Is there a statement that no option will be implemented?: * Yes, we are not implementing If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please select the appropriate reason(s) in the picklist below for why no option was implemented for this substance at your facility. You may choose to provide an explanation in the text box that is beneath the picklist. Materials or feedstock substitution Empty Product design or reformulation Empty Equipment or process modifications Empty Spill or leak prevention Empty On-site reuse, recycling or recovery Improved inventory management or purchasing techniques Empty

Identify at least one reason why no option to reduce the use or creation of this substance was implemented at your facility:

Select the applicable reason or reasons **

Good operator practice or training

Empty

Explanation of the reasons why no option will be implemented At this time no reductions are possible until studies to determine whether improvements that are technically or economically feasible have been completed. It is expected that these studies will be concluded by December 2014 at which time feasible toxic reductions will be implemented. Rationale for why the listed options were chosen for implementation General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): * Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name) License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX): * TSRP0016 Name of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last Name) What version of the plan is this summary based on?: * Reviewed Plan NA - M09, PM10 - Particulate Matter <= 10 Microns NA - M09, PM10 - Particulate Matter <= 10 Microns Substances Section Data Statement of Intent Are the following included in the Facility's TRA Plan? Use Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: * No If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: ** If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: ** substance is not used Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: * If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: ** Alltech Inc. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of PM10 in full compliance with all Federal and Provincial Regulations. Our employees are encouraged to participate in all toxic use reduction activities. Toxic use reduction will be an ongoing effort for Alltech, and we

Creation

will continue to monitor technological advancements to ensure that reduction options that are both technological and financially viable are implemented at our facility.

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: **

Objectives, Targets and Description

Objectives

Objectives in plan: *

All employees at Alltech will be involved in toxic use reduction.

Where technically and economically feasible, our goal is to reduce the loss of particulate matter (PM10) to the greatest extent possible. A review of the production process has identified potential efficiencies that may reduce losses through releases to

Use Targets

What is the targeted reduction in use of the toxic substance at the facility? *

_				
No quantity target		Quantity	Unit	
M	or			
What is the targeted t	imeframe for	this reduction? *		
No timeline target		years		
M	or			
Description of targets				
Creation Targets				
What is the targeted r	eduction in c	reation of the toxic substance at	the facility? *	
No quantity target		Quantity	Unit	
V	or			
What is the targeted t	imeframe for	this reduction? * years		
	or			
Description of Target				
Elimination of visible e ingredient loading, gra operations.				
Reasons for Use				
Why is the toxic substar	nce used at th	e facility?: *		
This substance is not u				
Summarize why the tox	ic substance i	s used at the facility: **		
Reasons for Creation				

R

Why is the toxic substance created at the facility?: *

As a by-product

Summarize why the toxic substance is created at the facility: **

(1) PM10 is created during the addition of dry ingredients to two ingredient loading stations. Particulate becomes airborne when powder ingredients are added to the mixing vessel. A portion of the airborne particulate escapes the local capture apparatus and is eventually released to atmosphere. (2) Particulate losses to air occur from the operation of the granulation process. Losses are due to the nature of the powder feed and the design of the equipment. (3) Creation of PM10 also occurs at the packaging line. Particulate emissions occur by air entrainment of the powdered product as it is dropped from the pouring spout to the receiving bag. A portion of the airborne emissions bypass the local extraction apparatus.

Toxic Reduction Options for Implementation

Description of the toxic reduction option(s) to be implemented

No, we are implementing					
-	question, please add the option(s) und duct design or reformulation, etc.).	er the appropriate Toxic Substance Reduction Categories (e.g. Materials			
	e select the appropriate reason(s) in th to provide an explanation in the text b	e picklist below for why no option was implemented for this substance ox that is beneath the picklist.	at		
Materials or feedstock sub	stitution				
Empty					
roduct design or reformula	ation				
Changed product specifi					
	undertaken to implement these red	action ontions?			
	ndertaken to implement these reductio	·			
Changed product speci	·				
Describe the option: *					
processed to granulate Substantially less parti- the product will be bag customers of the produ dust creation during the hopes to have 50% of t	n of the products will be further d form rather than powder. culate generation is anticipated when ged on the packaging line. In addition ict will also have reduced particulate eir use of the product. The company the product in this form in 5 years. e based on visible elimination of and are not quantified.				
N/A	tonnes	%			
Estimate of the amour	nt by which the use of the toxic substan	ce at the facility will be reduced as a result of implementing the option:			
M					
Estimate of the amour option:	nt by which the creation of the toxic su	ostance at the facility will be reduced as a result of implementing the			
	0	0			
		ed in the product leaving the facility will be reduced as a result of			
implementing the option	on:				
	· ·	the toxic substance at the facility will be reduced as a result of			
promenting the epin					
implementing the option		of the toxic substance at the facility will be reduced as a result of			
▽					
implementing the option		f the toxic substance at the facility will be reduced as a result of			
V					
	nt by which the disposals on-site (incluing implementing this option:	ding tailing and waste rock) of the toxic substance at the facility will be			
reduced as a result on	implementing this option.				
Estimate of the amour implementing this opti	· ·	e toxic substance at the facility will be reduced as a result on			
M					
Estimate of the amour implementing this opti		ne toxic substance at the facility will be reduced as a result on			
⋉					
Timelines					
THITCHINES					
N/A	years				
Anticipated timelines f	or achieving the estimated reduction of	tne use of the toxic substance:			

Is there a statement that no option will be implemented?: *

	Į				
Equipment or process modif	fications				
Modified equipment, layou	ıt or piping				
Which activities will be u	ındertaken	to implement these redu	ction ontions	?	
		•	•	•	
Modified equipment, layo		implement these reduction	options:: *		
Describe the option: *					
(1) Local capture hoods a modified to eliminate visi ingredient mixing station evaluated and modified t from the equipment. PM1 as the elimination of visil not have a quantifiable to completion is 2 years.	ble losses of s. (2) Grant of prevent v. 10 creation ble particular	f particulate PM10 at the dation processing will be disible particulate emissions reduction targets are set ate generation and does			
Estimates					
N/A	tonnes		%		
Estimate of the amount	by which th	e use of the toxic substanc	ce at the facilit	y will be reduced as a re	esult of implementing the option:
M					
Estimate of the amount option:	by which th	e creation of the toxic sub	stance at the f	facility will be reduced a	s a result of implementing the
	0		0		
Estimate of the amount implementing the option		e toxic substance containe	ed in the produ	uct leaving the facility w	vill be reduced as a result of
Implementing the option					
Estimate of the amount implementing the option		e total releases to air of t	he toxic substa	ance at the facility will b	pe reduced as a result of
Estimate of the amount implementing the option		e total releases to water (of the toxic su	bstance at the facility w	ill be reduced as a result of
▼					
implementing the option		e total releases to land of	the toxic subs	stance at the facility will	be reduced as a result of
▼					
reduced as a result on in			ling tailing and	waste rock) of the toxi	c substance at the facility will be
M					
Estimate of the amount implementing this option	•	e disposals off-site of the	toxic substanc	ce at the facility will be	reduced as a result on
M					
Estimate of the amount implementing this option		tal recycling off-site of the	e toxic substar	nce at the facility will be	reduced as a result on
Implementing this option					
,					
Timelines					
N/A		years			
•	achieving t	the estimated reduction of	the use of the	toxic substance:	
✓					
•	achieving t	the estimated reduction of	the creation o	f the toxic substance:	
Г	l	2			
Spill or leak prevention					
Empty					

Anticipated timelines for achieving the estimated reduction of the ${\it creation}$ of the toxic substance:

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Empty

Identify at least one reason why no option to reduce the use or creation of this substance was implemented at your facility:

Select the applicable reason or reasons ** Explanation of the reasons why no option will be implemented Rationale for why the listed options were chosen for implementation Options have economic and customer relations benefits. General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): * TSRP0016 Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name) License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX): * TSRP0016 Name of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last Name) What version of the plan is this summary based on?: *

Version: 3.13.0

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Reviewed Plan



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