# National Pollutant Release





Inventory (NPRI) and Partners Home **Submission Management** Help My Profile:Colin Welburn Logout Ec.gc.ca SWIM > 2012 > Morbern Inc. > Morbern Inc. > Report Preview \* indicates a required field, \*\* indicates a conditionally required field Plan Summary Preview Company Details Company Legal Name Morbern Inc. Company Address 80 Boundary Road South, Cornwall (Ontario) Report Details NPRI ID 741 Facility Name Morbern Inc. Facility Address 80 Boundary Road South, Cornwall (Ontario) **Update Comments Activities** Contacts Select the Facility Contacts **Facility Contacts** Please assign the appropriate contact under each category below. Public Contact: \* Dale Witty Highest Ranking Employee Jacques St-Denis Person responsible for Toxic Substance Reduction Plan preparation Colin Welburn Organization Validation Company and Parent Company Information Company Details Company Legal Name: \* Morbern Inc. Company Trade Name: \* Morbern Inc. Business Number: \* 103760948 Mailing Address

Address Line 1

Rural Route Number

Delivery Mode

PO Box

80 Boundary Road South

Post Office Box

1207

City *	Cornwall
Province/Territory **	Ontario
Postal Code: **	K6H 5V3
Physical Address	
Address Line 1	80 Boundary Road South
City	Cornwall
Province/Territory **	Ontario
Postal Code **	K6H 6M1
Additional Information	
Land Survey Description	
National Topographical Description	
Parent Companies	
Empty	

#### **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: \* Morbern Inc. NAICS Code: \* 313320 NF 01 Fa

		313320
NPRI Id: *		000000741
ON Reg 127/01 Id		6243
Facility Mailing Address		
Delivery Mode	General Delivery	
PO Box		
Rural Route Number		
Address Line 1	80 boundary Road South	
City *	cornwall	
Province/Territory **	Ontario	
Postal Code: **	k6h5v3	
Physical Address		
Address Line 1	80 Boundary Road South	
City	Cornwall	

Province/Territory **	Ontario
Postal Code: **	k6h5v3
Physical Address	
Address Line 1	80 Boundary Road South
City	Cornwall
Province/Territory **	Ontario
Postal Code **	K6H5v3
Additional Information	
Land Survey Description	
National Topographical Description	

NPRI Facility Location	
Latitude (decimal degrees) *	45.03300
Longitude (decimal degrees) *	-74.66840
UTM Zone	18
UTM Easting	526137.4
UTM Northing	4986865.2

#### **Contact Validation**

Delivery Mode

PO Box

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.

#### Contacts

```
Public Contact
  First Name: *
                                                                         Dale
  Last Name: *
                                                                         Witty
  Position: *
                                                                         EHS Manager
  Telephone: *
                                                                         6139372478
 Ext
  Fax
  Email: *
                                                                         dwitty@morbern.com
  Mailing Address
    Delivery Mode
                                                                          Post Office Box
    PO Box
                                                                          1207
    Rural Route Number
    Address Line 1
                                                                          80 Boundary Road South
    City *
                                                                          Cornwall
    Province/Territory **
                                                                          Ontario
    Postal Code: **
                                                                          K6H 5V3
Highest Ranking Employee
  First Name: *
                                                                         Jacques
  Last Name: *
                                                                         St-Denis
  Position: *
                                                                         President
  Telephone: *
                                                                         6133601707
 Ext
  Fax
  Email: *
                                                                         jstdenis@morbern.com
  Mailing Address
```

Post Office Box

1207

Rural Route Number	
Address Line 1	Road South
City *	cornwall
Province/Territory **	Ontario
Postal Code: **	k6h 6m1
Person responsible for the Toxic Substance Reduction Plan preparati	on
First Name: *	Colin
Last Name: *	Welburn
Position: *	Project Manager
Telephone: *	6138516226
Ext	
Fax	
Email: *	ctw@rwdi.com
Mailing Address	
Delivery Mode	
PO Box	
Rural Route Number	
Address Line 1	207 - 190 Somerset Street West
City *	Ottawa
Province/Territory **	Ontario
Postal Code: **	K2P 0J4
Employees	
Employees	
Number of Full-time Employees: *	
300	
Copy of Certifications of Plan Copy of Certifications of Plan	
Upload Document	
A copy of the certification statement(s) from the Highest Ranking Emplo	yee and the Licensed Planner(s), for the Toxic Substance Reduction
Plan for which the Plan Summary is being submitted are required. Please Do not upload any certification statements that are dated after December 31	upload a single document containing all certifications.
Comments	
As of February 14, 2014 we have confirmed with that the plans comply with the Act and (with the exception of paragraph 1 of subsection 11.1 - Timing) the Ontario Regulation 455/09 (General) made under that Act, of Ontario.	
Website address where the Plan Summary is posted for the public	
File Name *	Date *
Summary signature page.pdf	27/02/2014 12:41:34 PM

	onic Submission				
	pany Name				
MOL	rbern Inc.				
	ity Name				
Mor	rbern Inc.				
	ort Submitted By (authorized de e Witty	legate)			
M	I, the authorized delega Summary for the identif		at by pressing the "Continue"	button, I am electronically submitting the facility TRA F	Plan
Substar	nces				
108-10-	-1, Methyl isobutyl ketone				
	-1, Methyl isobutyl ketone				
Substa	ances Section Data				
State	ement of Intent				
Ar	e the following included in the F	acility's TRA Plan?			
	-	,			
Us					
	Is there a statement that the o	wner or operator of	the facility intends to reduce	e the use of the toxic substance at the facility?: *	
	If 'yes', exact statement of the	intent that is include	ed in the facility's TRA Plan to	o reduce the use of the toxic substance at the facility: **	
	In accordance with s. 4(1)1 of Morbern Inc.'s commitment to intends to reduce or minimize the listed substance wherever viable.	the Toxics Reduction pollution prevention the use, creation a	n Act and n, Morbern nd releases of		
	If 'no', reason in the facility's Ti	RA Plan for no inten	to reduce the use of the toxi	ic substance at the facility: **	
0.					
	reation		Alexa Constitue Colonia de la constitue		
	No	wner or operator of	the facility intends to reduce	the creation of the toxic substance at the facility?: *	
			ad in the Carille of TDA Discorts		++
	ir yes, exact statement or the	intent that is include	ed in the facility's TRA Plan to	o reduce the creation of the toxic substance at the facility	/: <b>*</b> *
	If `no', reason in the facility's Tl	RA Plan for no intent	to reduce the creation of the	e toxic substance at the facility: **	
	This facility does not create th	is substance.			
Obje	ectives, Targets and Descript	ion			
Ol	bjectives				
	Objectives in plan: *				
	Morbern Inc. in compliance with and O.Reg. 455/09, does into				
Us	se Targets				
	What is the targeted reduction	n in use of the tox	ic substance at the facility?	) *	
	No quantity	Quantity		Unit	
	target	Quantity		Unit	
	or or	0.35		tonnes	
	What is the targeted timefrar	ne for this reduction	n? *		
	No timeline target	years			
		or 5			
	Description of targets				

at is the targeted timeframe for this reduction? *  No timeline years target  or  cription of Target  ons for Use  or is the toxic substance used at the facility?: *  a formulation component  marize why the toxic substance is used at the facility: **  BK is a component of Flex Dull, a compound that is used in Top also to maintain the vinyl's colour properties when flexed.  ons for Creation  vis the toxic substance created at the facility?: *  is substance is not created at the facility?: *  is substance is not created at the facility marize why the toxic substance is created at the facility marize why the toxic substance is created at the facility marize why the toxic substance is created at the facility marize why the toxic reduction option(s) to be implemented here a statement that no option will be implemented?: *  iv, we are implementing our answered "Yes" please select the appropriate reason(s) in the picklist below for why no or facility. You may choose to provide an explanation in the text box that is beneath the picklist terials or feedstock substitution  Empty  duct design or reformulation  Empty  duct design or reformulation  Empty  dipment or process modifications  mproved application techniques  Which activities will be undertaken to implement these reduction options? *  Which activities will be undertaken to implement these reduction options? *  Improved application techniques  Describe the option: *  Replace ink bath with an enclosed reservoir with doctor blades.  Estimates	
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Improved application techniques  Describe the option: *  Replace ink bath with an enclosed reservoir with doctor blades.	
Describe the option: *  Replace ink bath with an enclosed reservoir with doctor blades.	
Replace ink bath with an enclosed reservoir with doctor blades.	
Estimates	
N/A tonnes %	
Estimate of the amount by which the <b>use</b> of the toxic substance at the facility will be redu	uced as a result of implementing the option:

Estimate of the amount option:	by which the <b>creation</b> of the toxic substa	ance at the facility will be reduced as a result of implementing the
<b>∀</b>		
Estimate of the amount implementing the option		in the product leaving the facility will be reduced as a result of
V		
Estimate of the amount implementing the option	· ·	toxic substance at the facility will be reduced as a result of
ш	0.3	0.8
Estimate of the amount implementing the option	· ·	the toxic substance at the facility will be reduced as a result of
M		
implementing the option		e toxic substance at the facility will be reduced as a result of
₩		
reduced as a result on i	t by which the <b>disposals on-site</b> (including implementing this option:	g tailing and waste rock) of the toxic substance at the facility will be
M		
implementing this optio		xic substance at the facility will be reduced as a result on
	0.4	80
implementing this optio		oxic substance at the facility will be reduced as a result on
⊠		
Timelines		
N/A	years	
Anticipated timelines fo	r achieving the estimated reduction of the	use of the toxic substance:
П	5	
Anticipated timelines fo	or achieving the estimated reduction of the	e creation of the toxic substance:
M		
Spill or leak prevention  Empty		
0 "		
On-site reuse, recycling or re	ecovery	
Improved inventory manager	ment or purchasing techniques	
. Empty		
Good operator practice or tr	raining	
Changed production sche	edule to minimize equipment and feeds	stock changeovers
Which activities will be u	undertaken to implement these reduction	on options?
	Idertaken to implement these reduction op	
Changed production sch	edule to minimize equipment and feedsto	ck changeovers
Describe the option: *		
LEAN Manufacturing Prog	gram.	
Estimates		
N/A	tonnes	%
Estimate of the amount	by which the <b>use</b> of the toxic substance a	at the facility will be reduced as a result of implementing the option:
П	0.01	0.2
Estimate of the amount option:	: by which the <b>creation</b> of the toxic substa	ance at the facility will be reduced as a result of implementing the
M		

Estimate of the amount by which the toxic substance contained in the product leaving the facility will be reduced as a result of

implementing the option	n:			
₩				
Estimate of the amount implementing the option		es to air of the toxio	substance at the facility v	will be reduced as a result of
П	0.01		0.2	
Estimate of the amount implementing the option		es to water of the t	oxic substance at the facili	ity will be reduced as a result of
Estimate of the amount implementing the option		es to land of the tox	cic substance at the facility	will be reduced as a result of
V				
reduced as a result on i	by which the <b>disposals or</b> the thick the thic	n-site (including tail	ing and waste rock) of the	toxic substance at the facility will be
₩				
Estimate of the amount implementing this optio		<b>ff-site</b> of the toxic s	ubstance at the facility wil	l be reduced as a result on
	0.01		1.6	
Estimate of the amount implementing this optio		off-site of the toxic	substance at the facility w	ill be reduced as a result on
✓				
Timelines				
N/A	years			
Anticipated timelines fo	r achieving the estimated	reduction of the <b>use</b>	of the toxic substance:	
	3			
Anticipated timelines fo	r achieving the estimated	reduction of the cre	ation of the toxic substance	ce:
<b>✓</b>				
Identify at least one implemented at your	reason why no or rfacility:	ption to reduc	e the use or crea	tion of this substance was
Select the applicable reason of	r reasons **			
Explanation of the reasons wh	y no option will be implem	nented		
Rationale for why the listed op	tions were chosen for imp	lementation		
General description of any acti at the facility that are outside	-	ner and operator of	the facility to reduce the	use and creation of the toxic substance
at the racinty that are outside	or the plan			
License Number of the toxic su substance (format TSRPXXXX):		r who made recomm	endations in the toxic sub	stance reduction plan for this
TSRP0049				
Name of the toxic substance re Name Last Name)	eduction planner who made	e recommendations	in the toxic substance red	uction plan for this substance (First
		20		
License Number of the toxic su TSRPXXXX): *				
TSRP0049	ıbstance reduction planner	r who has certified th	ne toxic substance reduction	on plan for this substance (format
1.	ubstance reduction planner	r who has certified th	ne toxic substance reduction	on plan for this substance (format
Name of the toxic substance re Name)				on plan for this substance (format r this substance (First Name Last
	eduction planner who has o			

### 108-65-6, Propylene glycol methyl ether acetate

108-65-6, Propylene glycol methyl ether acetate

Statement of Intent				
Are the following included	in the Facility'	s TRA Plan?		
Use				
Is there a statement that	at the owner o	or operator of the facility intend	ds to reduce the ι	use of the toxic substance at the facility?: *
If 'yes', exact statement	t of the intent	that is included in the facility's	TRA Plan to redu	ce the use of the toxic substance at the facility: **
In accordance with s. 4 Morbern Inc.'s commit intends to reduce or m	4(1)1 of the Toment to pollutation	oxics Reduction Act and ion prevention, Morbern se, creation and releases of ically and economically		
If 'no', reason in the fac	ility's TRA Plai	n for no intent to reduce the us	e of the toxic sub	stance at the facility: **
Creation				
	at the owner o	or operator of the facility intend	ds to reduce the c	creation of the toxic substance at the facility?: *
No				
If 'yes', exact statement	t of the intent	that is included in the facility's	TRA Plan to redu	ce the creation of the toxic substance at the facility: **
If 'no', reason in the fac	ility's TRA Plar	n for no intent to reduce the cr	eation of the toxic	substance at the facility: **
This facility does not c	reate this sub	stance.		
and O.Reg. 455/09, do	eduction in u	Toxic Reduction Act (2009) reduce the use of PGMEA.  se of the toxic substance at Quantity  0.13  this reduction? *	the facility? *	Unit
No timeline target		years		
Г	or	5		
Description of targets			1	
Creation Targets				
What is the targeted re	eduction in c	reation of the toxic substanc	e at the facility?	*
No quantity target		Quantity		Unit
⋉	or			
What is the targeted ti	imeframe for	this reduction? *		
No timeline target	2 2	years		
	or			

Description of Target

Why is the toxic substance u	sed at the facility?: *		
As a formulation componen	t		
Summarize why the toxic sul	bstance is used at the facility: **		
PGMEA is a component of Z compound that is used to it	oldine XL-29SE Crosslinker , a mprove the adhesion of dyes to the oats in Marine vinyl products.		
Reasons for Creation			
Why is the toxic substance of	reated at the facility?: *		
This substance is not create	ed at the facility		
Summarize why the toxic sub	bstance is created at the facility: **		
Foxic Reduction Options for Im	plementation		
Description of the toxic redu	ction option(s) to be implemented		
Is there a statement that no	option will be implemented?: *		
No, we are implementing			
or feedstock substitution, Pro  If you answered "Yes" pleas	s question, please add the option(s) und oduct design or reformulation, etc.).  se select the appropriate reason(s) in the to provide an explanation in the text be	e picklist below for why no option was	
Materials or feedstock sub	estitution		
Empty	Sitution		
Product design or reformu	lation		
_			
Empty			
Equipment or process mo	difications		
Improved application ted	chniques		
Which activities will be	a undertaken te implement these radi	uction options?	
	e undertaken to implement these redu	•	
Improved application t	undertaken to implement these reduction techniques	n options?: *	
Describe the option: *			
	an enclosed reservoir with doctor		
Estimates			
N/A	tonnes	%	
	nt by which the <b>use</b> of the toxic substan		esult of implementing the option:
П	0.1	8	
	nt by which the <b>creation</b> of the toxic sub		s a result of implementing the
option:			
Estimate of the amou implementing the opt	ant by which the toxic substance <b>contain</b>	ed in the product leaving the facility wi	ill be reduced as a result of
Implementing the ope			
Estimate of the amou implementing the opt	int by which the total <b>releases to air</b> of total ion:	the toxic substance at the facility will be	e reduced as a result of
	0.1	8	
Estimate of the amou implementing the opt	nt by which the total <b>releases to water</b> ion:	of the toxic substance at the facility wi	Il be reduced as a result of
implementing the opt			
Estimate of the amou implementing the opt	nt by which the total <b>releases to land</b> or ion:	f the toxic substance at the facility will	be reduced as a result of
V			

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be

Reasons for Use

	implementing this option.	
<b>▽</b>		
Estimate of the amount implementing this option		ic substance at the facility will be reduced as a result on
	0.14	80
Estimate of the amount implementing this option		xic substance at the facility will be reduced as a result on
<b>M</b>		
The ellere		
Timelines		
N/A	years	
Anticipated timelines for	r achieving the estimated reduction of the I	use of the toxic substance:
_	5	
Anticipated timelines for	r achieving the estimated reduction of the c	creation or the toxic substance:
Spill or leak prevention		
Empty		
On-site reuse, recycling or re	ecovery	
Improved inventory manager	ment or purchasing techniques	
Empty		
Good operator practice or tr	raining	
Changed production sche	edule to minimize equipment and feedsto	ock changeovers
	undertaken to implement these reductio	
	dertaken to implement these reduction opt	
	edule to minimize equipment and feedstock	k Changeovers
Describe the option: *  LEAN Manufacturing Prog	gram	
Estimates	,	
		-
N/A Estimate of the amount	tonnes	% t the facility will be reduced as a result of implementing the option:
	0.00	0.2
Estimate of the amount		nce at the facility will be reduced as a result of implementing the
option:		
M		
implementing the option		the product leaving the facility will be reduced as a result of
<u>~</u>		
		oxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	n:	
implementing the option	n:  0.00  by which the total <b>releases to water</b> of the	oxic substance at the facility will be reduced as a result of  8.2  ne toxic substance at the facility will be reduced as a result of
implementing the option	n:  0.00  by which the total <b>releases to water</b> of the	8.2
implementing the option  Estimate of the amount implementing the option  Estimate of the amount	n:  0.00  by which the total <b>releases to water</b> of the n:  by which the total <b>releases to land</b> of the	8.2
implementing the option  Estimate of the amount implementing the option	n:  0.00  by which the total <b>releases to water</b> of the n:  by which the total <b>releases to land</b> of the	8.2 ne toxic substance at the facility will be reduced as a result of
implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	n:  0.00  by which the total <b>releases to water</b> of the n:  by which the total <b>releases to land</b> of the n:	8.2 ne toxic substance at the facility will be reduced as a result of

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on

implementing this option:

	П	0.00		1.6			
			al <b>recycling off-site</b> of th	ne toxic substa	nce at the facility will be re	educed as a result on	
	implementing this opt	ion:					
	_						
	Timelines						
	N/A	v	vears				
			e estimated reduction of	the <b>use</b> of the	toxic substance:		
	П	:	3				
	·	for achieving th	e estimated reduction of	the <b>creation</b> o	of the toxic substance:		
	<b>∞</b>						
	Identify at least one implemented at you	e reason w ur facility:	hy no option to r	reduce the	e use or creation o	of this substance w	as
	Select the applicable reason	or reasons **					
	Explanation of the reasons w	hy no option w	ill be implemented				
	Rationale for why the listed of	ptions were ch	osen for implementation				
	General description of any ac at the facility that are outside		en by the owner and ope	erator of the fa	cility to reduce the use and	d creation of the toxic substa	ance
	License Number of the toxic substance (format TSRPXXXX		ction planner who made	recommendation	ons in the toxic substance	reduction plan for this	
	Name of the toxic substance Name Last Name)	reduction planr	ner who made recommen	idations in the	toxic substance reduction	plan for this substance (First	t
	License Number of the toxic : TSRPXXXX): *	substance redu	ction planner who has ce	ertified the toxi	c substance reduction plan	ı for this substance (format	
	TSRP0049						
	Name of the toxic substance Name)	reduction planr	ner who has certified the	toxic substanc	ce reduction plan for this su	ubstance (First Name Last	
	What version of the plan is the New Plan	nis summary ba	used on?: *	ı			
109-99	-9, Tetrahydrofuran						
	9-9, Tetrahydrofuran						
Subst	ances Section Data						
Stat	ement of Intent						
Ar	re the following included in the	e Facility's TRA	Plan?				
U	se						
	Is there a statement that the	owner or oper	ator of the facility intend	Is to reduce the	e use of the toxic substanc	e at the facility?: *	
	Yes						
	If 'yes', exact statement of the		1	TRA Plan to red	duce the use of the toxic su	ubstance at the facility: **	
	In accordance with s. 4(1)1 Morbern Inc.'s commitment intends to reduce or minimi the listed substance whereviable.	to pollution pre ze the use, cre	evention, Morbern ation and releases of				
	If `no', reason in the facility's	TRA Plan for no	o intent to reduce the use	e of the toxic s	ubstance at the facility: **	:	

Creation

		r operator of the facility intends to reduc	ne creation of the toxic sut	,
If 'yes', exact statemer	nt of the intent	that is included in the facility's TRA Plan	reduce the creation of the to	oxic substance at the facility: **
				,
If 'no', reason in the fa	cility's TRA Plar	for no intent to reduce the creation of the	coxic substance at the facili	y: **
This facility does not	create this sub	stance.		
bjectives, Targets and I	Description			
Objectives				
Objectives in plan: *				
Morbern Inc. in complete and O.Reg. 455/09, complete and O		Foxic Reduction Act (2009) educe the use of THF.		
Use Targets				
What is the targeted	reduction in u	se of the toxic substance at the facility		
No quantity target		Quantity	Unit	
	or	102	tonnes	
What is the targeted	timeframe for	this reduction? *		
No timeline		years		
target		years		
п	or	5		
Description of targets			,	
Creation Targets  What is the targeted	reduction in c	eation of the toxic substance at the fa	ity? *	
No quantity target		Quantity	Unit	
V	or			
VA/In a t in the a town a to all		this we desertion 2.*		
What is the targeted	umeirame ior	this reduction?		
No timeline target		years		
M	or			
	or			
<u> </u>	or			
Description of Target	or			
Description of Target  Reasons for Use		e facility?: *		
Description of Target	ance used at th	e facility?: *		
Description of Target  Reasons for Use  Why is the toxic substa	ance used at th ponent	e facility?: *  used at the facility: **		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation com  Summarize why the tox	ance used at the ponent xic substance is or component o	used at the facility: ** f the Clear Coat, which is		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation com  Summarize why the tox  THF is used as a major	ance used at the ponent xic substance is or component o	used at the facility: ** f the Clear Coat, which is		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation com  Summarize why the toxic substate  THF is used as a major used as a base carrier	ance used at the ponent xic substance is or component our for the Top C	used at the facility: **  f the Clear Coat, which is oat in the printers.		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation come  Summarize why the toxic  THF is used as a major used as a base carried.  Reasons for Creation	ance used at the ponent axic substance is or component our for the Top Connected at ance created at	used at the facility: **  f the Clear Coat, which is pat in the printers.  the facility?: *		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation come  Summarize why the toxic substate  THF is used as a major used as a base carrie  Reasons for Creation  Why is the toxic substate  This substance is not  Summarize why the toxic substate  This substance is not substate  Summarize why the toxic substate  This substance is not substate  Summarize why the toxic substate  This substance is not substate  Summarize why the toxic substate  This substance is not substate  Summarize why the toxic substate  Summarize why the toxic substate  Summarize why the toxic substate  This substance is not substate  Summarize why the toxic substate  Summarize wh	ance used at the ponent axic substance is or component or for the Top Connected at the created at the axic substance is	used at the facility: **  f the Clear Coat, which is pat in the printers.  the facility?: *  facility  created at the facility: **		
Description of Target  Reasons for Use  Why is the toxic substate  As a formulation come  Summarize why the toxic  THF is used as a major used as a base carried  Reasons for Creation  Why is the toxic substate  This substance is not	ance used at the ponent axic substance is or component or for the Top Connected at the created at the axic substance is	used at the facility: **  f the Clear Coat, which is pat in the printers.  the facility?: *  facility  created at the facility: **		

Tox

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

No, we are implementing		
	question, please add the option(s) unde uct design or reformulation, etc.).	er the appropriate Toxic Substance Reduction Categories (e.g. Materials
	select the appropriate reason(s) in the to provide an explanation in the text bo	picklist below for why no option was implemented for this substance at $\boldsymbol{x}$ that is beneath the picklist.
Materials or feedstock subs	titution	
Substituted materials		
Which activities will be	undertaken to implement these redu	ction options?
Which activities will be un	ndertaken to implement these reduction	options?: *
Substituted materials		
Describe the option: *  Substitution of bulk solv	rents	
Estimates		
N/A	tonnes	%
	by which the <b>use</b> of the toxic substanc	te at the facility will be reduced as a result of implementing the option:
	102	80
Estimate of the amount option:	t by which the <b>creation</b> of the toxic sub-	stance at the facility will be reduced as a result of implementing the
V		
Estimate of the amount implementing the option		ed in the product leaving the facility will be reduced as a result of
<b>▽</b>		
Estimate of the amount implementing the optio		he toxic substance at the facility will be reduced as a result of
	74	80
Estimate of the amount implementing the optio		of the toxic substance at the facility will be reduced as a result of
$\overline{v}$		
Estimate of the amount implementing the optio		the toxic substance at the facility will be reduced as a result of
✓		
	t by which the <b>disposals on-site</b> (including this option:	ling tailing and waste rock) of the toxic substance at the facility will be
V		
Estimate of the amount implementing this option		toxic substance at the facility will be reduced as a result on
	8.2	80
Estimate of the amount implementing this option		e toxic substance at the facility will be reduced as a result on
V		
<del>-</del>		
Timelines		
N/A	years	
Anticipated timelines fo	r achieving the estimated reduction of t	the <b>use</b> of the toxic substance:
	5	
Anticipated timelines fo	or achieving the estimated reduction of t	the <b>creation</b> of the toxic substance:
Product design or reformula	ition	
Empty		
Equipment or process modi	ifications	

Is there a statement that no option will be implemented?:  $\mbox{\ensuremath{^{\ast}}}$ 

Improved application techniques

Which activities will be un Improved application te		implement these reduction opt	tions?: *	
	c.mque3			
Describe the option: *  Replace ink bath with ar blades.	n enclosed r	eservoir with doctor		
Estimates				
N/A	tonnes		%	
	by which t	ne <b>use</b> of the toxic substance at	t the facilit	ty will be reduced as a result of implementing the option
	1.4		8	
Estimate of the amount option:	by which t	ne <b>creation</b> of the toxic substar	nce at the	facility will be reduced as a result of implementing the
M				
Estimate of the amount implementing the optio		ne toxic substance <b>contained ir</b>	the prod	uct leaving the facility will be reduced as a result of
V				
Estimate of the amount implementing the optio		ne total <b>releases to air</b> of the t	oxic substa	ance at the facility will be reduced as a result of
<b>—</b>	1		8	
Estimate of the amount implementing the optio	by which t	ne total <b>releases to water</b> of th		obstance at the facility will be reduced as a result of
M				
Estimate of the amount implementing the optio		ne total <b>releases to land</b> of the	toxic subs	stance at the facility will be reduced as a result of
V				
Estimate of the amount reduced as a result on			tailing and	d waste rock) of the toxic substance at the facility will be
Estimate of the amount	by which t	ne <b>disposals off-site</b> of the tox	ic substan	ce at the facility will be reduced as a result on
implementing this optio				
	1.4		80	
implementing this option		otal <b>recycling off-site</b> of the to	xic substai	nce at the facility will be reduced as a result on
M				
Timelines				
N/A		years		
	r achieving	the estimated reduction of the	<b>use</b> of the	toxic substance:
	3	5		
Anticipated timelines fo	r achieving	the estimated reduction of the	creation o	of the toxic substance:
V				
l or leak prevention				
Empty				
site reuse, recycling or re	ecovery			
Empty				
roved inventory manage Empty	ment or pu	rchasing techniques		
od operator practice or to	raining			
hanged production sche	edule to mir	nimize equipment and feedst	ock chan	geovers
Which activities will be	undertaken	to implement these reduction	n ontions	2

Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Changed production schedule to minimize equipment and feedstock changeovers

Describe the option: *		
LEAN Manufacturing Prog	gram.	
Estimates		
N/A	tonnes	%
Estimate of the amount	by which the <b>use</b> of the toxic substance	e at the facility will be reduced as a result of implementing the option:
П	0.03	0.2
Estimate of the amount option:	by which the <b>creation</b> of the toxic subs	tance at the facility will be reduced as a result of implementing the
<u>~</u>		
Estimate of the amount implementing the option		d in the product leaving the facility will be reduced as a result of
Estimate of the amount implementing the option		e toxic substance at the facility will be reduced as a result of
	0.02	0.2
Estimate of the amount implementing the option		f the toxic substance at the facility will be reduced as a result of
V		
Estimate of the amount implementing the option		the toxic substance at the facility will be reduced as a result of
✓		
reduced as a result on i	by which the <b>disposals on-site</b> (including implementing this option:	ng tailing and waste rock) of the toxic substance at the facility will be
<b>⊠</b>		
implementing this optio		coxic substance at the facility will be reduced as a result on
	0.03	1.6
Estimate of the amount implementing this optio		toxic substance at the facility will be reduced as a result on
<u>~</u>		
Timelines		
N/A	years	
Anticipated timelines fo	r achieving the estimated reduction of th	ne <b>use</b> of the toxic substance:
	3	
Anticipated timelines fo	r achieving the estimated reduction of th	ne <b>creation</b> of the toxic substance:
Identify at least one implemented at your	reason why no option to re	educe the use or creation of this substance was
Select the applicable reason or	r reasons **	
Explanation of the reasons who	y no option will be implemented	
Rationale for why the listed op	otions were chosen for implementation	
General description of any acti at the facility that are outside	-	ator of the facility to reduce the use and creation of the toxic substance
License Number of the toxic susubstance (format TSRPXXXX):  TSRP0049	•	commendations in the toxic substance reduction plan for this
Name of the toxic substance re Name Last Name)	eduction planner who made recommenda	ations in the toxic substance reduction plan for this substance (First
License Number of the toxic su	ubstance reduction planner who has cert	ified the toxic substance reduction plan for this substance (format

ISRPAAA).						
TSRP0049						
Name of the toxic subs	tance reduction	n planner who has certified the	toxic substance	reduction plan for this sub	ostance (First Name Las	st
Name)						
What version of the pla	n is this summ	ary based on?: *				
New Plan						
00.00.7. \/   /-						
80-20-7, Xylene (all iso	•					
330-20-7, Xylene (all isomers	5)					
ubstances Section Data						
Statement of Intent						
Are the following included	in the Facility'	s TRA Plan?				
-	•					
Use						
Is there a statement th	nat the owner o	r operator of the facility intend	s to reduce the	use of the toxic substance	at the facility?: *	
Yes						
If 'ves', exact statemer	nt of the intent	that is included in the facility's	TRA Plan to redu	ice the use of the toxic sub	ostance at the facility: *	:*
		oxics Reduction Act and			,	
		ion prevention, Morbern				
		se, creation and releases of ically and economically				
viable.	viicievei teeiiii	learly and economically				
If 'no' reason in the fa	cility's TDA Plan	n for no intent to reduce the use	of the toxic sub	octance at the facility: **		
ii no , reason in the ta	cility 5 TIVATIO	To no mene to reduce the dis	or the toxic sub	stance at the racinty.		
Creation						
	at the owner o	r operator of the facility intend	s to reduce the	creation of the toxic substa	ance at the facility?: *	
No						
If 'yes', exact statemer	nt of the intent	that is included in the facility's	TRA Plan to redu	ice the creation of the toxic	c substance at the facili	ty: **
If 'no', reason in the fa	cility's TRA Plar	n for no intent to reduce the cre	ation of the toxi	c substance at the facility:	**	
This facility does not				,		
Objectives, Targets and I	Description					
	·					
Objectives						
Objectives in plan: *						
		Toxic Reduction Act (2009)				
and O.Reg. 455/09, d	loes intend to r	educe the use of Xylene.				
Use Targets						
What is the targeted	reduction in u	se of the toxic substance at t	he facility? *			
No quantity		Quantity		Unit		
target						
	or	1.7		tonnes		
What is the targeted	timeframe for	this reduction? *				
· ·						
No timeline		years				
target						
	or	5				
Description of targets						
Creation Targets						

No quantity target		Quantity		Unit		
₩	or					
What is the targeted tir	meframe for	this reduction? *				
No timeline target		years				
<u> </u>	or					
Description of Target			]	,		
Reasons for Use			,			
Why is the toxic substan		e facility?: *	1			
As a formulation compo	onent					
Summarize why the toxic		· ·	1			
used as a base carrier	for the Top C	nt of the Clear Coat, which is coat in the printers. It is also he inks added to the top coat.				
Reasons for Creation						
Why is the toxic substan	ce created at	the facility?: *				
This substance is not cr	reated at the	facility				
Summarize why the toxic	substance i	s created at the facility: **				
Tavia Daduation Ontions to	. lanalanaan	tation				
Toxic Reduction Options fo	r impiemen	tation				
Description of the toxic re	eduction op	tion(s) to be implemented				
Is there a statement tha	t no option w	vill be implemented?: *	1			
No, we are implementing	ng					
		n, please add the option(s) unc sign or reformulation, etc.).	ler the approp	oriate Toxic Substance Re	eduction Categories (e.g	. Materials
		the appropriate reason(s) in th ide an explanation in the text b			s implemented for this s	ubstance at
Materials or feedstock	substitution	1				
Substituted materials	s					
Which activities wi	ill be undert	aken to implement these red	uction option	ns?		
		en to implement these reduction				
Substituted mater	ials	·	·			
Describe the option	*				,	
Substitution of bul						
Estimates						
N/A	tonne		%	19	and the first state of the stat	
Estimate of the al		ich the <b>use</b> of the toxic substar		iity wiii be reduced as a i	result of implementing tr	ne option:
_	0.8	ich the grantian of the toyic cu	betance at the	a facility will be reduced	as a result of implement	ing the
option:	mount by wn	ich the <b>creation</b> of the toxic su	ostance at the	e facility will be reduced a	as a result of implement	ing the
M						
Estimate of the a	-	ich the toxic substance <b>contair</b>	ed in the pro	<b>duct</b> leaving the facility v	will be reduced as a resu	ilt of
V						
Estimate of the a	-	ich the total <b>releases to air</b> of	the toxic subs	stance at the facility will	be reduced as a result of	f
П	0.6		6			
Estimate of the a	mount by wh	ich the total <b>releases to water</b>	of the toxic s	substance at the facility v	will be reduced as a resu	lt of

implementing the optio	n:	
$\overline{\checkmark}$		
Estimate of the amoun implementing the option	•	he toxic substance at the facility will be reduced as a result of
M		
	t by which the <b>disposals on-site</b> (including implementing this option:	ng tailing and waste rock) of the toxic substance at the facility will be
M		
Estimate of the amoun implementing this option	•	oxic substance at the facility will be reduced as a result on
	0.1	6
Estimate of the amount implementing this option		toxic substance at the facility will be reduced as a result on
V		
Timelines		
N/A	years	
Anticipated timelines for	or achieving the estimated reduction of th	ne <b>use</b> of the toxic substance:
П	5	
Anticipated timelines for	or achieving the estimated reduction of th	ne <b>creation</b> of the toxic substance:
M		
Product design or reformula	ation	
Empty		
Equipment or process mod	ifications	
Improved application tech	nniques	
Which activities will be	undertaken to implement these reduc	tion options?
	ndertaken to implement these reduction of	
Improved application te		puons:
Describe the option: *		
Replace ink bath with a blades.	n enclosed reservoir with doctor	
Estimates		
N/A	tonnes	0/0
Estimate of the amoun	t by which the <b>use</b> of the toxic substance	at the facility will be reduced as a result of implementing the option
	0.9	6
option:	t by which the <b>creation</b> of the toxic subs	tance at the facility will be reduced as a result of implementing the
M		
implementing the optio		I in the product leaving the facility will be reduced as a result of
M		
implementing the optio		e toxic substance at the facility will be reduced as a result of
	0.6	6
implementing the optio		the toxic substance at the facility will be reduced as a result of
₩		
implementing the optio		he toxic substance at the facility will be reduced as a result of
<b>⊠</b>		
E		
	t by which the <b>disposals on-site</b> (including implementing this option:	ng tailing and waste rock) of the toxic substance at the facility will be

Estimate of the amount by which the disposals off-site of the toxic substance at the facility will be reduced as a result on

	n:	
	0.9	80
Estimate of the amount	by which total <b>recycling off-site</b> of the t	toxic substance at the facility will be reduced as a result on
implementing this option		,
₩		
,		
Timelines		
N/A	years	
·	r achieving the estimated reduction of the	e <b>use</b> of the toxic substance:
	5	
Anticipated timelines for	r achieving the estimated reduction of the	e <b>creation</b> of the toxic substance:
$\checkmark$		
Spill or leak prevention		
Empty		
, ,		
On-site reuse, recycling or re	ecovery	
Empty		
Language of Control Control	and an arrando alta a facilitate	
improved inventory manager	ment or purchasing techniques	
Empty		
Good operator practice or tr	aining	
то от от от от от от от	g	
Changed production sche	dule to minimize equipment and feeds	stock changeovers
Which activities will be a	undertaken te implement these reduct	tion entiane?
	indertaken to implement these reduct	
	dertaken to implement these reduction o	
Changed production school	edule to minimize equipment and feedsto	ock changeovers
Describe the option: *		
LEAN Manufacturing Prog	ram.	
Estimates		
N/A	tonnes	%
Estimate of the amount	by which the <b>use</b> of the toxic substance	at the facility will be reduced as a result of implementing the option:
	0.02	0.1
Estimate of the amount		
	by which the <b>creation</b> of the toxic substa	ance at the facility will be reduced as a result of implementing the
option:	by which the <b>creation</b> of the toxic substa	ance at the facility will be reduced as a result of implementing the
option: ✓	by which the <b>creation</b> of the toxic substa	ance at the facility will be reduced as a result of implementing the
· <u>~</u>		
· <u>~</u>	by which the toxic substance <b>contained</b>	ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of
Estimate of the amount	by which the toxic substance <b>contained</b>	
Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n:	
Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n: by which the total <b>releases to air</b> of the	in the product leaving the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n: by which the total <b>releases to air</b> of the	in the product leaving the facility will be reduced as a result of
Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> i:  by which the total <b>releases to air</b> of the i:  0.01	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> i:  by which the total <b>releases to air</b> of the i:  0.01  by which the total <b>releases to water</b> of	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> i:  by which the total <b>releases to air</b> of the i:  0.01  by which the total <b>releases to water</b> of	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n: by which the total <b>releases to air</b> of the n: 0.01 by which the total <b>releases to water</b> of n: by which the total <b>releases to land</b> of the	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n: by which the total <b>releases to air</b> of the n: 0.01 by which the total <b>releases to water</b> of n: by which the total <b>releases to land</b> of the	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of the toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance <b>contained</b> n: by which the total <b>releases to air</b> of the n: 0.01 by which the total <b>releases to water</b> of n: by which the total <b>releases to land</b> of the	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of the toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance contained  by which the total releases to air of the  0.01  by which the total releases to water of  by which the total releases to land of the  by which the disposals on-site (includin	in the product leaving the facility will be reduced as a result of a toxic substance at the facility will be reduced as a result of the toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance contained in:  by which the total releases to air of the in:  0.01  by which the total releases to water of in:  by which the total releases to land of the in:	in the product leaving the facility will be reduced as a result of  a toxic substance at the facility will be reduced as a result of  0.1  the toxic substance at the facility will be reduced as a result of  ne toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option	by which the toxic substance contained  by which the total releases to air of the  0.01  by which the total releases to water of  by which the total releases to land of the  by which the disposals on-site (includin	in the product leaving the facility will be reduced as a result of  a toxic substance at the facility will be reduced as a result of  0.1  the toxic substance at the facility will be reduced as a result of  ne toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option  Estimate of the amount reduced as a result on i	by which the toxic substance contained in:  by which the total releases to air of the in:  0.01  by which the total releases to water of in:  by which the total releases to land of the in:  by which the disposals on-site (includin mplementing this option:	in the product leaving the facility will be reduced as a result of  a toxic substance at the facility will be reduced as a result of  0.1  the toxic substance at the facility will be reduced as a result of  ne toxic substance at the facility will be reduced as a result of
Estimate of the amount implementing the option  Estimate of the amount reduced as a result on i  Estimate of the amount implementing this option	by which the toxic substance contained in:  by which the total releases to air of the in:  0.01  by which the total releases to water of in:  by which the total releases to land of the in:  by which the disposals on-site (includin mplementing this option:	in the product leaving the facility will be reduced as a result of  a toxic substance at the facility will be reduced as a result of  0.1  the toxic substance at the facility will be reduced as a result of  ne toxic substance at the facility will be reduced as a result of  g tailing and waste rock) of the toxic substance at the facility will be
Estimate of the amount implementing the option  Estimate of the amount reduced as a result on i	by which the toxic substance contained in:  by which the total releases to air of the in:  0.01  by which the total releases to water of in:  by which the total releases to land of the in:  by which the disposals on-site (includin mplementing this option:	in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.1  the toxic substance at the facility will be reduced as a result of  ne toxic substance at the facility will be reduced as a result of  g tailing and waste rock) of the toxic substance at the facility will be

implementing this option:

N/A	years
·	ng the estimated reduction of the <b>use</b> of the toxic substance:
	3
Anticipated timelines for achievin	ng the estimated reduction of the <b>creation</b> of the toxic substance:
Identify at least one reasor implemented at your facility	n why no option to reduce the use or creation of this substance by:
Select the applicable reason or reasons	**
Explanation of the reasons why no option	on will be implemented
Rationale for why the listed options were	re chosen for implementation
General description of any actions under at the facility that are outside of the pla	ertaken by the owner and operator of the facility to reduce the use and creation of the toxic sub an
License Number of the toxic substance r substance (format TSRPXXXX): *	reduction planner who made recommendations in the toxic substance reduction plan for this
TSRP0049	
Name of the toxic substance reduction p Name Last Name)	planner who made recommendations in the toxic substance reduction plan for this substance (F
License Number of the toxic substance r TSRPXXXX): *	reduction planner who has certified the toxic substance reduction plan for this substance (forma
TSRP0049	
Name of the toxic substance reduction p	planner who has certified the toxic substance reduction plan for this substance (First Name Last
What version of the plan is this summar	ry based on?: *
-48-9, Hydrotreated heavy naphtl	ha
2-48-9, Hydrotreated heavy naphtha	
tances Section Data	
atement of Intent	
	TPA Plan?
Are the following included in the Facility's T	IIVA FIGHT:
Jse	
Is there a statement that the owner or o	operator of the facility intends to reduce the use of the toxic substance at the facility?: $st$
If 'ves', exact statement of the intent the	at is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: **
In accordance with s. 4(1)1 of the Toxi Morbern Inc.'s commitment to pollution intends to reduce or minimize the use, the listed substance wherever technica	ics Reduction Act and n prevention, Morbern , creation and releases of
viable.	
viable.	for no intent to reduce the use of the toyle substance at the facilities.
viable.	for no intent to reduce the use of the toxic substance at the facility: **
viable.	For no intent to reduce the use 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: \*\*

V

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\* This facility does not create this substance. Objectives, Targets and Description Objectives Objectives in plan: \* Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Naphtha. **Use Targets** What is the targeted reduction in use of the toxic substance at the facility? \* No quantity Quantity Unit target Г or 0.08 tonnes What is the targeted timeframe for this reduction? \* No timeline years target or 3 Description of targets **Creation Targets** What is the targeted reduction in creation of the toxic substance at the facility? \* No quantity Quantity Unit target W or What is the targeted timeframe for this reduction? \* No timeline years target Description of Target Reasons for Use Why is the toxic substance used at the facility?: \* For on-site use/processing Summarize why the toxic substance is used at the facility: \*\* Naphtha is used as a cleaning compound. 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?: \*

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.).

No, we are implementing

If you answered " <b>Yes</b> " pleas your facility. You may choose				as implemented for this substance at
Materials or feedstock sub	ostitution			
Empty				
Product design or reformu  Empty	ılation			
Equipment or process mo	odifications			
Empty				
Spill or leak prevention				
Empty				
On-site reuse, recycling or Empty	recovery			
Improved inventory manag	gement or purchasing ted	chniques		
Good operator practice or	· trainina			
	-		all and a second	
Changed production sch	nedule to minimize equip	ment and feedstock	cnangeovers	
	e undertaken to impleme		•	
	undertaken to implement t chedule to minimize equip			
Describe the option: *	erredule to minimize equip	There and recustook en	angeovers	
LEAN Manufacturing Pr	rogram.			
	-			
Estimates				
N/A	tonnes		%	
Estimate of the amou		toxic substance at the		a result of implementing the option:
	0.08	of the toxic substance a	at the facility will be reduce	d as a result of implementing the
option:	and by which the diddient	The toxic substance of	at the radiity will be readed	a as a result of implementing the
V				
Estimate of the amou implementing the opt		tance contained in the	e product leaving the facility	y will be reduced as a result of
Estimate of the amou implementing the opt		ases to air of the toxic	substance at the facility wi	ill be reduced as a result of
	0.08		1.6	
Estimate of the amou implementing the opti		ises to water of the to	oxic substance at the facility	y will be reduced as a result of
		ases to land of the tox	ic substance at the facility v	will be reduced as a result of
V				
reduced as a result or	int by which the <b>disposals</b> implementing this option	-	ng and waste rock) of the t	oxic substance at the facility will be
Estimate of the amou	int by which the disposals	<b>off-site</b> of the toxic su	ubstance at the facility will l	be reduced as a result on
implementing this opt				
V				
Estimate of the amou implementing this opt				
p.eeg cg cg		g off-site of the toxic s	substance at the facility will	be reduced as a result on

3
Anticipated timelines for achieving the estimated reduction of the <b>creation</b> of the toxic substance:
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
General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substant 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): *
TSRP0049  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): *
TSRP0049
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?: *
New Plan
67-63-0, Isopropyl alcohol
67-63-0, Isopropyl alcohol
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?: *  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: **
In accordance with s. 4(1)1 of the Toxics Reduction Act and Morbern Inc.'s commitment to pollution prevention, Morbern intends to reduce or minimize the use, creation and releases of the listed substance wherever technically and economically viable.
If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic 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?: *  No
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: \*\*

This facility does not create this substance

N/A

years

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

## Objectives, Targets and Description Objectives Objectives in plan: \* Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of IPA. **Use Targets** What is the targeted reduction in use of the toxic substance at the facility? \* No quantity Quantity Unit target Г or 6.6 tonnes What is the targeted timeframe for this reduction? \* No timeline years target П or 5 Description of targets Creation Targets What is the targeted reduction in creation of the toxic substance at the facility? \* No quantity Quantity Unit target Lyd. What is the targeted timeframe for this reduction? \* No timeline years target Lyd<sup>®</sup> or 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: \*\* IPA is used as a major component of the Clear Coat, which is used as a base carrier for the Top Coat in the printers. It is also a common component of many of the inks added to the top coat. 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?: \*

No, we are 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 Substituted materials Which activities will be undertaken to implement these reduction options? Which activities will be undertaken to implement these reduction options?: \* Substituted materials Describe the option: \* Substitution of bulk solvents **Estimates** N/A tonnes Estimate of the amount by which the use of the toxic substance at the facility will be reduced as a result of implementing the option: 30 Estimate of the amount by which the creation of the toxic substance at the facility will be reduced as a result of implementing the option: Estimate of the amount by which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the option: N/P Estimate of the amount by which the total releases to air of the toxic substance at the facility will be reduced as a result of implementing the option: 3.6 30 Estimate of the amount by which the total releases to water of the toxic substance at the facility will be reduced as a result of implementing the option: Estimate of the amount by which the total releases to land of the toxic substance at the facility will be reduced as a result of implementing the option: Estimate of the amount by which the disposals on-site (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option: Estimate of the amount by which the disposals off-site of the toxic substance at the facility will be reduced as a result on implementing this option: Estimate of the amount by which total recycling off-site of the toxic substance at the facility will be reduced as a result on implementing this option: **Timelines** vears Anticipated timelines for achieving the estimated reduction of the use of the toxic substance: Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance: Product design or reformulation **Empty** Equipment or process modifications Improved application techniques Which activities will be undertaken to implement these reduction options? Which activities will be undertaken to implement these reduction options?: \*

Improved application techniques

Describe the option: \*

Replace ink bath with an enclosed reservoir with doctor blades.

Estimates

Estimates

	N/A	tonnes		%	
_	Estimate of the amount	by which t	ne <b>use</b> of the toxic substance at	the facility will be reduced as a result of implementing the op-	ption:
		1.4		8	
	Estimate of the amount option:	by which t	ne <b>creation</b> of the toxic substance	ce at the facility will be reduced as a result of implementing t	the
	V				
	Estimate of the amount implementing the optio	-	ne toxic substance <b>contained in</b>	the product leaving the facility will be reduced as a result of	:
	<u> </u>				
	Estimate of the amount implementing the optio		ne total <b>releases to air</b> of the to	exic substance at the facility will be reduced as a result of	
		1		8	
	Estimate of the amount implementing the optio		ne total <b>releases to water</b> of th	e toxic substance at the facility will be reduced as a result of	
	V				
	Estimate of the amount implementing the optio		ne total <b>releases to land</b> of the	toxic substance at the facility will be reduced as a result of	
	V				
	Estimate of the amount reduced as a result on			railing and waste rock) of the toxic substance at the facility w	ill be
	M				
	Estimate of the amount implementing this option		ne <b>disposals off-site</b> of the toxio	c substance at the facility will be reduced as a result on	
		1.4		80	
	Estimate of the amount implementing this option		otal <b>recycling off-site</b> of the tox	ric substance at the facility will be reduced as a result on	
	M				
Т	ïmelines				
	N/A		years		
_		r achieving	the estimated reduction of the u	use of the toxic substance:	
	П		5		
	Anticipated timelines fo	r achieving	the estimated reduction of the c	reation of the toxic substance:	
	V				
0 '''					
-	or leak prevention mpty				
On-si	te reuse, recycling or re	ecoverv			
	mpty				
-	ved inventory manage	ment or pu	rchasing techniques		
Good	operator practice or to	raining			
Cha	anged production sche	edule to mir	nimize equipment and feedsto	ock changeovers	
٧	Vhich activities will be	undertaker	to implement these reduction	n options?	
			implement these reduction opti		
	Changed production sch	edule to mi	nimize equipment and feedstock	changeovers	
D	escribe the option: *				
	LEAN Manufacturing Pro	gram.			

N/A	tonnes		%
Estimate of the amount	by which th	ne <b>use</b> of the toxic substance at	the facility will be reduced as a result of implementing the option: $\begin{tabular}{c} \end{tabular}$
	0.03		0.2
Estimate of the amount option:	by which th	ne <b>creation</b> of the toxic substance	ce at the facility will be reduced as a result of implementing the
<u>~</u>			
Estimate of the amount implementing the option		he toxic substance <b>contained in</b>	the product leaving the facility will be reduced as a result of
<b>™</b>			
Estimate of the amount implementing the option	-	ne total <b>releases to air</b> of the to	oxic substance at the facility will be reduced as a result of
	0.02		0.2
Estimate of the amount	by which tl	ne total <b>releases to water</b> of the	e toxic substance at the facility will be reduced as a result of
implementing the option	n:		
<b>~</b>			
Estimate of the amount implementing the option		ne total <b>releases to land</b> of the	toxic substance at the facility will be reduced as a result of
<b>▽</b>			
reduced as a result on i	•		tailing and waste rock) of the toxic substance at the facility will be
<b>™</b>			
Estimate of the amount implementing this option		ne disposals off-site of the toxic	c substance at the facility will be reduced as a result on
	0.03		1.6
Estimate of the amount implementing this option		otal <b>recycling off-site</b> of the tox	xic substance at the facility will be reduced as a result on
<u>~</u>			
,		,	
Timelines			
N/A		years	
	r achieving	the estimated reduction of the u	use of the toxic substance:
		3	
Anticipated timelines fo	r achieving	the estimated reduction of the <b>c</b>	creation of the toxic substance:
· •	_		
Identify at least one implemented at your	reason facility:	why no option to redu	uce the use or creation of this substance was
	-		
Select the applicable reason or	r reasons *	*	
Explanation of the reasons why	y no option	will be implemented	
Rationale for why the listed op	tions were	chosen for implementation	
General description of any acti	ons underta	aken 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 su substance (format TSRPXXXX):		duction planner who made recon	mmendations in the toxic substance reduction plan for this
TSRP0049			
Name of the toxic substance re Name Last Name)	eduction pla	nner who made recommendatio	ons in the toxic substance reduction plan for this substance (First
	bstance red	duction planner who has certified	d the toxic substance reduction plan for this substance (format
TSRPXXXX): * TSRP0049			
	al case :		and the same of th
Name of the toxic substance re Name)	eduction pla	nner wno has certified the toxic	substance reduction plan for this substance (First Name Last

New Plan		ary based on?: *		
20 02 2 Mathyd athyd kate				
'8-93-3, Methyl ethyl keto 78-93-3, Methyl ethyl ketone	ne			
Substances Section Data				
Statement of Intent				
Are the following included	l in the Facility's	s TRA Plan?		
Use				
Is there a statement the	nat the owner o	r operator of the facility intends to reduc	the use of the toxic substance at the facil	ity?: *
In accordance with s. Morbern Inc.'s commi intends to reduce or	4(1)1 of the To tment to polluti minimize the us	that is included in the facility's TRA Plan exics Reduction Act and ion prevention, Morbern se, creation and releases of ically and economically	o reduce the use of the toxic substance at t	he facility: **
If 'no', reason in the fa	cility's TRA Plan	n for no intent to reduce the use of the to	ic substance at the facility: **	
Creation		,		
Is there a statement the	nat the owner o	r operator of the facility intends to reduc	the creation of the toxic substance at the	facility?: *
If 'yes', exact statemer	nt of the intent	that is included in the facility's TRA Plan	reduce the creation of the toxic substance	e at the facility: **
If 'no', reason in the fa		n for no intent to reduce the creation of the stance.	e toxic substance at the facility: **	
01: 1: T				
Objectives, Targets and I	Description			
Objectives				
Objectives in plan: *	liance with the 1	Toxic Reduction Act (2009)		
Objectives in plan: *  Morbern Inc. in compl		Toxic Reduction Act (2009) educe the use of MEK.		
Objectives in plan: *  Morbern Inc. in compl				
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the complete to	does intend to r	educe the use of MEK.	)*	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second sec	does intend to r	educe the use of MEK. se of the toxic substance at the facility		
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the complete to	does intend to r	educe the use of MEK.	v * Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	does intend to r	educe the use of MEK. se of the toxic substance at the facility		
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	reduction in us	se of the toxic substance at the facility  Quantity  354	Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	reduction in us	se of the toxic substance at the facility  Quantity  354	Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	reduction in us	educe the use of MEK.  se of the toxic substance at the facility  Quantity  354  this reduction? *  years	Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	reduction in us  or  timeframe for	educe the use of MEK.  se of the toxic substance at the facility  Quantity  354  this reduction? *	Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	reduction in us  or  timeframe for	educe the use of MEK.  se of the toxic substance at the facility  Quantity  354  this reduction? *  years	Unit	
Objectives in plan: *  Morbern Inc. in compland O.Reg. 455/09, c  Use Targets  What is the targeted  No quantity target  What is the targeted  No timeline target  Description of targets  Creation Targets	or timeframe for	educe the use of MEK.  se of the toxic substance at the facility  Quantity  354  this reduction? *  years	Unit	
Objectives in plan: *  Morbern Inc. in compland O.Reg. 455/09, c  Use Targets  What is the targeted  No quantity target  What is the targeted  No timeline target  Description of targets  Creation Targets	or timeframe for	educe the use of MEK.  se of the toxic substance at the facility  Quantity  354  this reduction? *  years  5	Unit	
Objectives in plan: *  Morbern Inc. in complete and O.Reg. 455/09, complete to the second of the sec	or timeframe for	se of the toxic substance at the facility  Quantity  354  this reduction? *  years  5	Unit tonnes	

No timeline target		years				
V	or					
Description of Target						
Reasons for Use						
Why is the toxic substance use	d at the	e facility?: *	h			
As a formulation component						
Summarize why the toxic subs	tance is	used at the facility: **				
MEK is used as a major compused as a base carrier for the also used as a viscosity controlleaning agent in many areas	Top Co	oat in the printers. MEK is t during print runs and as a				
Reasons for Creation						
Why is the toxic substance cre	ated at	the facility?: *				
This substance is not created	at the	facility				
Summarize why the toxic subs	tance is	created at the facility: **				
Toxic Reduction Options for Impl	lement	ation				
Description of the toxic reduct	ion opt	ion(s) to be implemented				
Is there a statement that no o	ption w	II be implemented?: *				
No, we are implementing						
If you answered " <b>No</b> " to this q or feedstock substitution, Prod			er the appro	priate Toxic Substance	Reduction Catego	ories (e.g. Materials
If you answered " <b>Yes</b> " please	calact t	he annronriate reason(s) in th	a nicklist hal	ow for why no ontion i	was implemented	for this substance at
your facility. You may choose t					was implemented i	ior this substance at
Materials or feedstock subs	titution					
Materials of feedstock subs	ululion					
Substituted materials						
Which activities will be u	underta	ken to implement these red	uction option	ns?		
Which activities will be un	dertake	n to implement these reductio	n options?: *	•		
Substituted materials		·	·			
Describe the option: *						
Substitution of bulk solv	ents.					
Estimates						
N/A	tonnes	5	%			
Estimate of the amount	by whi	ch the <b>use</b> of the toxic substan	ice at the fac	ility will be reduced as	a result of implem	nenting the option:
	315		67			
Estimate of the amount option:	by whi	ch the <b>creation</b> of the toxic su	bstance at th	e facility will be reduce	ed as a result of im	nplementing the
₩.						
Estimate of the amount implementing the option	,	ch the toxic substance <b>contain</b>	ed in the pro	oduct leaving the facili	ty will be reduced	as a result of
₩						
Estimate of the amount implementing the option		ch the total <b>releases to air</b> of	the toxic sub	stance at the facility w	vill be reduced as a	a result of
	221		67			
Estimate of the amount implementing the option	by whi	ch the total <b>releases to water</b>			ty will be reduced	as a result of
implementing the option						
_						1
Estimate of the amount implementing the option	-	ch the total <b>releases to land</b> o	r the toxic su	ibstance at the facility	will be reduced as	a result of

	t by which the <b>disposals on-site</b> (including tailing and waste rock) of the toxic substance at the facility implementing this option:	will be
<b></b>		
Estimate of the amount implementing this option	t by which the <b>disposals off-site</b> of the toxic substance at the facility will be reduced as a result on on:	
	67	
Estimate of the amount implementing this option	t by which total <b>recycling off-site</b> of the toxic substance at the facility will be reduced as a result on on:	
<b>×</b>		
Timelines		
N/A	years	
	or achieving the estimated reduction of the <b>use</b> of the toxic substance:	
	5	
Anticipated timelines fo	or achieving the estimated reduction of the <b>creation</b> of the toxic substance:	
Product design or reformula	ation	
Empty		
Equipment or process modified	ifications	
Improved application tech	nniques	
Which activities will be u	undertaken to implement these reduction options?	
	ndertaken to implement these reduction options?: *	
Improved application tec		
Describe the option: *		
Replace ink bath with an	n enclosed reservoir with doctor	
	rendosed reservoir with doctor	
blades.	if enclosed reservoir with doctor	
Estimates	Teliciosed reservoir with doctor	
Estimates		
Estimates N/A	tonnes % to by which the use of the toxic substance at the facility will be reduced as a result of implementing the	option:
Estimates N/A	tonnes %	option:
Estimates  N/A  Estimate of the amount	tonnes % t by which the <b>use</b> of the toxic substance at the facility will be reduced as a result of implementing the	•
Estimates  N/A  Estimate of the amount  Estimate of the amount	tonnes % t by which the <b>use</b> of the toxic substance at the facility will be reduced as a result of implementing the	•
Estimates  N/A  Estimate of the amount  Estimate of the amount option:	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementin to the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result to the toxic substance contained in the product leaving the facility will be reduced as a result to the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the contained in the contained in the contained in the co	g the
Estimates  N/A  Estimate of the amount  Estimate of the amount option:  Estimate of the amount	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementin to the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result to the toxic substance contained in the product leaving the facility will be reduced as a result to the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the toy which the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the facility will be reduced as a result of the contained in the product leaving the contained in the contained in the contained in the co	g the
Estimates  N/A  Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes %  It by which the use of the toxic substance at the facility will be reduced as a result of implementing the substance at the facility will be reduced as a result of implementing the substance at the facility will be reduced as a result of implementing the substance contained in the product leaving the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the substan	g the
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option	tonnes %  It by which the use of the toxic substance at the facility will be reduced as a result of implementing the substance at the facility will be reduced as a result of implementing the substance at the facility will be reduced as a result of implementing the substance contained in the product leaving the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the facility will be reduced as a result of the substance at the substan	g the
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	tonnes  to by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  to by which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result in:  to by which the total releases to air of the toxic substance at the facility will be reduced as a result of an:  8  8  8  8  8  8  8  8  8  8  8  8  8	g the
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result in:  t by which the total releases to air of the toxic substance at the facility will be reduced as a result of in:  26  8  t by which the total releases to water of the toxic substance at the facility will be reduced as a result of in:	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of in:  t by which the total releases to air of the toxic substance at the facility will be reduced as a result of in:  26  8  t by which the total releases to water of the toxic substance at the facility will be reduced as a result of in:  27  8  8  8  8  8  8  8  8  8  8  8  8  8	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of in:  t by which the total releases to air of the toxic substance at the facility will be reduced as a result of in:  26  8  t by which the total releases to water of the toxic substance at the facility will be reduced as a result of in:  27  8  8  8  8  8  8  8  8  8  8  8  8  8	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes %  t by which the use of the toxic substance at the facility will be reduced as a result of implementing the 8  t by which the creation of the toxic substance at the facility will be reduced as a result of implementing the toy which the toxic substance contained in the product leaving the facility will be reduced as a result of in:  t by which the total releases to air of the toxic substance at the facility will be reduced as a result of in:  26  8  t by which the total releases to water of the toxic substance at the facility will be reduced as a result of in:  27  8  8  8  8  8  8  8  8  8  8  8  8  8	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option	tonnes	g the  of
Estimates  N/A  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option	tonnes	g the  of

	Timelines		
	N/A	years	
	Anticipated timelines fo	r achieving the estimated reduction of the	e <b>use</b> of the toxic substance:
		5	
	Anticipated timelines fo	r achieving the estimated reduction of the	e <b>creation</b> of the toxic substance:
Cpill	or look provention		
Spili	or leak prevention		
	Empty		
On-s	site reuse, recycling or re	PCOVERV	
	Empty		
Impr	oved inventory manage	ment or purchasing techniques	
	Empty		
Goo	d operator practice or tr	aining	
Tr	aining related to toxics s	substance reduction	
	Which activities will be u	undertaken to implement these reducti	on options?
		dertaken to implement these reduction of	
	Training related to toxics		odolist.
	Training related to toxics	s substance reduction	
	Describe the option: *		
	LEAN Manufacturing Prog	gram.	
	Estimates		
	N/A	tonnes	%
			% at the facility will be reduced as a result of implementing the option:
	Estimate of the amount	by which the <b>use</b> of the toxic substance a 0.75	at the facility will be reduced as a result of implementing the option:
	Estimate of the amount	by which the <b>use</b> of the toxic substance a 0.75	at the facility will be reduced as a result of implementing the option:  0.2
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in the contained i	at the facility will be reduced as a result of implementing the option:  0.2
	Estimate of the amount  Estimate of the amount option:	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in the contained i	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in: by which the total <b>releases to air</b> of the	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in: by which the total <b>releases to air</b> of the	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of the initial problem.	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of the initial problem.	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing the option  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2
	Estimate of the amount option:  Estimate of the amount option:  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:	at the facility will be reduced as a result of implementing the option:  0.2  Increase at the facility will be reduced as a result of implementing the in the product leaving the facility will be reduced as a result of toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:	at the facility will be reduced as a result of implementing the option:  0.2  Increase at the facility will be reduced as a result of implementing the in the product leaving the facility will be reduced as a result of toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in: by which the total <b>releases to air</b> of the in: 0.5 by which the total <b>releases to water</b> of in: by which the total <b>releases to land</b> of the in: by which the <b>disposals on-site</b> (including	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of  e toxic substance at the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount reduced as a result on in  Estimate of the amount reduced as a result on in  Estimate of the amount	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:  by which the <b>disposals on-site</b> (including implementing this option:	at the facility will be reduced as a result of implementing the option:  0.2  ance at the facility will be reduced as a result of implementing the  in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of  e toxic substance at the facility will be reduced as a result of
	Estimate of the amount option:  Estimate of the amount implementing the option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:  by which the <b>disposals on-site</b> (including implementing this option:  by which the <b>disposals off-site</b> of the toin:	at the facility will be reduced as a result of implementing the option:  0.2  Ince at the facility will be reduced as a result of implementing the in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of  e toxic substance at the facility will be reduced as a result of  g tailing and waste rock) of the toxic substance at the facility will be reduced as a result on
	Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing this option  Estimate of the amount implementing this option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:  by which the <b>disposals on-site</b> (including mplementing this option:  by which the <b>disposals off-site</b> of the to in:  0.75 by which total <b>recycling off-site</b> of the to	at the facility will be reduced as a result of implementing the option:  0.2  Ince at the facility will be reduced as a result of implementing the in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of  e toxic substance at the facility will be reduced as a result of  g tailing and waste rock) of the toxic substance at the facility will be
	Estimate of the amount option:  Estimate of the amount implementing the option  Estimate of the amount implementing this option	by which the <b>use</b> of the toxic substance at 0.75 by which the <b>creation</b> of the toxic substance by which the toxic substance <b>contained</b> in:  by which the total <b>releases to air</b> of the in:  0.5 by which the total <b>releases to water</b> of in:  by which the total <b>releases to land</b> of the in:  by which the <b>disposals on-site</b> (including mplementing this option:  by which the <b>disposals off-site</b> of the to in:  0.75 by which total <b>recycling off-site</b> of the to	at the facility will be reduced as a result of implementing the option:  0.2  Ince at the facility will be reduced as a result of implementing the in the product leaving the facility will be reduced as a result of  toxic substance at the facility will be reduced as a result of  0.2  the toxic substance at the facility will be reduced as a result of  e toxic substance at the facility will be reduced as a result of  g tailing and waste rock) of the toxic substance at the facility will be reduced as a result on  1.6

	3
	Anticipated timelines for achieving the estimated reduction of the <b>creation</b> of the toxic substance:
le ir	dentify at least one reason why no option to reduce the use or creation of this substance was mplemented at your facility:
S	Select the applicable reason or reasons **
E	explanation of the reasons why no option will be implemented
R	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
SI	License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *  TSRP0049
	Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name)
T	License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format SRPXXXX): *
	TSRP0049
	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?: *  New Plan
8052-41-	-3, Stoddard solvent
	-3, Stoddard solvent
Substar	nces Section Data
State	ment of Intent
Are	the following included in the Facility's TRA Plan?
Use	e e
Is	s 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	f '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: **
	In accordance with s. 4(1)1 of the Toxics Reduction Act and Morbern Inc.'s commitment to pollution prevention, Morbern intends to reduce or minimize the use, creation and releases of the listed substance wherever technically and economically viable.
If	f `no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: **
Cre	eation
	s there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: *
	No
If	f '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: **
Tf.	f 'no' reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: **

This facility does not create this substance.

years

Anticipated timelines for achieving the estimated reduction of the  ${\bf use}$  of the toxic substance:

#### Objectives, Targets and Description

#### Objectives

Objectives in plan: \*

Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Stoddard Solvent.

#### **Use Targets**

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

No quantity target		Quantity		Unit	
Г	or	0.17		tonnes	
What is the targeted tim	eframe for	this reduction? *			
No timeline target		years			
П	or	5			
Description of targets					
Creation Targets					
What is the targeted rec	luction in cr	reation of the toxic substance	at the facility?	*	
No quantity target		Quantity		Unit	
<b>▽</b>	or				
What is the targeted tim  No timeline target	eframe for	this reduction? *			
<b>▽</b>	or				
Description of Target					
Reasons for Use					
Why is the toxic substance	e used at the	e facility?: *			
As a formulation compor	nent				
Summarize why the toxic	substance is	used at the facility: **			
Stoddard Solvent is a co Automotive topcoats.	mponent of	a dye that is used in			
Reasons for Creation					
Why is the toxic substance	e created at	the facility?: *			
This substance is not cre	eated 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?: \*

No, we are 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.

Product design or reformula	ition	
Equipment or process mod	ifications	
Improved application tech	nniques	
Which activities will be	undertaken to implement these reductio	n options?
Which activities will be ur	ndertaken to implement these reduction opt	cions?: *
Improved application te	chniques	
Describe the option: *		
Replace ink bath with an blades.	n enclosed reservoir with doctor	
Estimates		
N/A	tonnes	%
Estimate of the amount	t by which the <b>use</b> of the toxic substance at	t the facility will be reduced as a result of implementing the option:
	0.2	8
Estimate of the amount option:	t by which the <b>creation</b> of the toxic substar	nce at the facility will be reduced as a result of implementing the
φαση. <b>Γ</b>		
Estimate of the amount implementing the optio		n the product leaving the facility will be reduced as a result of
i e		
Estimate of the amount implementing the option		oxic substance at the facility will be reduced as a result of
	0.2	8
Estimate of the amount implementing the option		ne toxic substance at the facility will be reduced as a result of
V		
Estimate of the amount implementing the option		toxic substance at the facility will be reduced as a result of
Implementing the optio		
	t by which the <b>disposals on-site</b> (including implementing this option:	tailing and waste rock) of the toxic substance at the facility will be
V		
Estimate of the amount implementing this option	· · · · · · · · · · · · · · · · · · ·	ic substance at the facility will be reduced as a result on
	0.14	80
	t by which total <b>recycling off-site</b> of the to	xic substance at the facility will be reduced as a result on
implementing this optio	in:	
IV.		
Timelines		
N/A	years	
Anticipated timelines fo	or achieving the estimated reduction of the	use of the toxic substance:
ш	5	
Anticipated timelines fo	or achieving the estimated reduction of the	creation of the toxic substance:
~		
Spill or leak prevention		
Empty		
On-site reuse, recycling or re	ecovery	

Materials or feedstock substitution

Empty

Empty

Empty				
Good operator practice or to	raining			
Changed production sche	edule to minimize equipment an	d feedstock change	eovers	
Which activities will be	undertaken to implement these	reduction options?	1	
	ndertaken to implement these redu	·		
Changed production sch	nedule to minimize equipment and	feedstock changeov	ers	
Describe the option: *  LEAN Manufacturing Pro-	aua.m			
	grani.			
Estimates				
N/A	tonnes	%		
Estimate of the amount	t by which the <b>use</b> of the toxic sub		will be reduced as a result	of implementing the option:
	0.00	0.2	scility will be reduced as a r	acult of implementing the
option:	t by which the <b>creation</b> of the toxi	ic substance at the ra	icility will be reduced as a re	esuit or implementing the
₩				
implementing the optio	t by which the toxic substance <b>con</b>	ntained in the produc	<b>ct</b> leaving the facility will be	reduced as a result of
implementing the optio	t by which the total <b>releases to ai</b>	r of the toxic substa	nce at the facility will be rec	duced as a result of
	0.00	0.2		
Estimate of the amount implementing the optio	t by which the total <b>releases to w</b> on:	ater of the toxic sub	stance at the facility will be	reduced as a result of
₩.				
implementing the optio	t by which the total <b>releases to la</b>	nd of the toxic subst	ance at the facility will be re	educed as a result of
reduced as a result on	t by which the <b>disposals on-site</b> (implementing this option:	including tailing and	waste rock) of the toxic sub	stance at the facility will be
Estimate of the amount implementing this option	t by which the <b>disposals off-site</b> con:	of the toxic substance	e at the facility will be reduc	ced as a result on
П	0.00	1.6		
Estimate of the amount implementing this option	t by which total <b>recycling off-site</b> on:	of the toxic substance	ce at the facility will be redu	uced as a result on
V				
Timelines				
N/A	years			
·	or achieving the estimated reduction	on of the <b>use</b> of the t	oxic substance:	
П	3			
Anticipated timelines fo	or achieving the estimated reduction	on of the <b>creation</b> of	the toxic substance:	
Identify at least one implemented at you	reason why no option r facility:	to reduce the	use or creation of	this substance was
Select the applicable reason o	r reasons **			
Explanation of the reasons wh	y no option will be implemented			
Rationale for why the listed op	otions were chosen for implementa	ation		
General description of any act	ions undertaken by the owner and	d operator of the faci	lity to reduce the use and c	reation of the toxic substance

Improved inventory management or purchasing techniques

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): \* TSRP0049 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): \* TSRP0049 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?: \* New 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 that the owner or operator of the facility intends to reduce the use 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 use of the toxic substance at the facility: \*\* In accordance with s. 4(1)1 of the Toxics Reduction Act and Morbern Inc.'s commitment to pollution prevention, Morbern intends to reduce or minimize the use, creation and releases of the listed substance wherever technically and economically If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic 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: \*\* This facility does not create this substance. Objectives, Targets and Description Objectives Objectives in plan: \* Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Zinc. **Use Targets** What is the targeted reduction in use of the toxic substance at the facility? \* No quantity Quantity Unit target П or 0.02 tonnes

No timeline target		years			
Г	or	3			
Description of targets				•	
Creation Targets					
What is the targeted reduction	n in cr	eation of the toxic substance	e at the facili	ty? *	
No quantity		Quantity		Unit	
target		quantity			
✓ or					
What is the targeted timefran	ne for	this reduction? *			
No timeline target		years			
<b></b> ✓	or				
Description of Target				,	
Reasons for Use					
Why is the toxic substance used	d at the	e facility?: *	ı		
As a formulation component					
Summarize why the toxic subst		-			
Zinc is an ingredient in the co	проин	us used to mandracture vinyr.			
Reasons for Creation					
Why is the toxic substance crea		1			
This substance is not created					
Summarize why the toxic subst	ance is	created at the facility: **			
oxic Reduction Options for Imple	ementa	ation			
Description of the toxic reduction	on opti	on(s) to be implemented			
Is there a statement that no op	tion wi	Il be implemented?: *	l		
No, we are implementing					
If you answered " <b>No</b> " to this quor feedstock substitution, Produ			er the approp	oriate Toxic Substance Redu	ction Categories (e.g. Materials
If you answered " <b>Yes</b> " please s your facility. You may choose to					plemented for this substance at
Materials or feedstock substi	tution				
Empty					
Product design or reformulat	ion				
Empty	1011				
	iootio-				
Equipment or process modif	ication	18			
Spill or leak prevention					
Empty					
On-site reuse, recycling or re	covery	/			

Empty

Improved inventory management or purchasing techniques

Empty

Changed production sch	edule to mir	nimize equipment and f	eedstock changeo	overs	
Describe the option: *					
LEAN Manufacturing Prog	gram.				
Estimates					
N/A	tonnes		%		
	by which th	ne <b>use</b> of the toxic subs	tance at the facilit	ty will be reduced as a	a result of implementing the op
	0.02		0.1		
option:	by which th	ne <b>creation</b> of the toxic	substance at the	facility will be reduced	d as a result of implementing th
implementing the option	•	ne toxic substance <b>cont</b>	ained in the prod	uct leaving the facility	will be reduced as a result of
⋈					
implementing the option		ne total <b>releases to air</b>	of the toxic subst	ance at the facility wil	ll be reduced as a result of
<b></b>					
Estimate of the amount implementing the option		ne total <b>releases to wa</b>	ter of the toxic su	bstance at the facility	will be reduced as a result of
Estimate of the amount implementing the option	-	ne total <b>releases to lan</b>	<b>d</b> of the toxic subs	stance at the facility v	will be reduced as a result of
Estimate of the amount reduced as a result on i	•		ncluding tailing and	d waste rock) of the to	oxic substance at the facility wi
i.e.					
Estimate of the amount implementing this optio	-	ne <b>disposals off-site</b> of	the toxic substan	ce at the facility will b	pe reduced as a result on
ш	0.02		1.6		
Estimate of the amount implementing this optio		otal <b>recycling off-site</b> o	of the toxic substa	nce at the facility will	be reduced as a result on
M					
Timelines					
21/2					
N/A Anticipated timelines fo	r achieving	years the estimated reduction	of the <b>use</b> of the	toxic substance:	
	. demeving	3	r or the <b>abc</b> or the	l toxic substance.	
Anticipated timelines fo	r achieving		of the <b>creation</b> of	of the toxic substance	
Anticipated timelines to	r acmeving	the estimated reduction	Tor the <b>creation</b> c	in the toxic substance.	•
ntify at least one plemented at your	reason fracility:	why no option t	o reduce the	e use or creation	on of this substance
-t the englished assessed	*>	*			
ct the applicable reason o	r reasons **				
anation of the reasons wh	y no option	will be implemented			
nale for why the listed op	tions were o	chosen for implementat	cion		
					se and creation of the toxic sub

Good operator practice or training

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *	
TSRP0049	
Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (Final Name Last Name)	irst
License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (formation TSRPXXXX): *	at
TSRP0049	
Name of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last Name)	t
What version of the plan is this summary based on?: *	
New Plan	

Version: 3.14.0

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#### 7.1 Certification by Highest Ranking Employee

As of February 21, 2014, I, Jacques St. Denis, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and (with the exception of paragraph 1 of subsection 11.1 - Timing) comply with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

#### Substances

- Isopropyl Alcohol (IPA) (CAS No. 67-63-0)
- Methyl Ethyl Ketone (MEK) (CAS No. 78-93-3)
- Methyl Isobutyl Ketone (MIBK) (CAS No. 108-10-1)
- Naphtha (Isopar k) (CAS No. 64742-48-9)
- Propylene Glycol Monomethyl Ether Acetate (PGMEA) (CAS No. 108-65-6)
- Stoddard Solvent (CAS No. 8052-41-3)
- Tetrahydrofuran (THF) (CAS No. 109-99-9)
- Xylene (CAS No. 1330-20-7)
- Zinc Compounds (CAS No. N/A-14)

Jacques St. Denis

President

Morbern, Inc.

#### 7.2 Certification by Licensed Planner

As of February 21, 2014 I, Colin Welburn, certify that I am familiar with the processes at Morbern Inc. that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the toxic substance reduction plans referred to below for the toxic substances and that (with the exception of paragraph 1 of subsection 11.1 - Timing) the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act, of Ontario.

Substance	Date of Certified Plan
•Isopropyl Alcohol (IPA) (CAS No. 67-63-0)	February 21, 2014
•Methyl Ethyl Ketone (MEK) (CAS No. 78-93-3)	. February 21, 2014
•Methyl Isobutyl Ketone (MIBK) (CAS No. 108-10-1)	. February 21, 2014
•Naphtha (Isopar k) (CAS No. 64742-48-9)	. February 21, 2014
•Propylene Glycol Monomethyl Ether Acetate (PGMEA) (CAS No. 108-65-6)	. February 21, 2014
•Stoddard Solvent (CAS No. 8052-41-3)	. February 21, 2014
•Tetrahydrofuran (THF) (CAS No. 109-99-9)	. February 21, 2014
•Xylene (CAS No. 1330-20-7)	. February 21, 2014
•Zinc Compounds (CAS No. N/A-14)	. February 21, 2014

Colin Welburn, Planner License #TSRP0049

Senior Project Manager / Toxic Substance Reduction Planner

**RWDI**