



National Pollutant Release Inventory (NPRI) and Partners



Canada

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* 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

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
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
NPRI Id: *	0000000741
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
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

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

Delivery Mode	Post Office Box
PO Box	1207

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Road South

cornwall

Ontario

k6h 6m1

Person responsible for the Toxic Substance Reduction Plan preparation

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

City *

Province/Territory **

Postal Code: **

207 - 190 Somerset Street West

Ottawa

Ontario

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 Employee and the Licensed Planner(s), for the Toxic Substance Reduction Plan for which the Plan Summary is being submitted are required. Please upload a single document containing all certifications.

Do not upload any certification statements that are dated after December 31. If this applies, click "?" (Help) for more information.

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 *

Summary signature page.pdf

Date *

27/02/2014 12:41:34 PM

Plan Summary Submission

Electronic Submission

Company Name

Morbern Inc.

Facility Name

Morbern Inc.

Report Submitted By (authorized delegate)

Dale Witty

☒

I, the authorized delegate, acknowledge that by pressing the "Continue" button, I am electronically submitting the facility TRA Plan Summary for the identified facility.

Substances

108-10-1, Methyl isobutyl ketone

108-10-1, Methyl isobutyl ketone

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.

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 MIBK.

Use Targets

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

No quantity target	Quantity	Unit
<input checked="" type="checkbox"/>	or	tonnes
	0.35	

What is the targeted timeframe for this reduction? *

No timeline target	years
<input checked="" type="checkbox"/>	or
	5

Description of targets

Creation Targets

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

No quantity target	Quantity	Unit
<input checked="" type="checkbox"/>	or	

What is the targeted timeframe for this reduction? *

No timeline target	years
<input checked="" type="checkbox"/>	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: **

MIBK is a component of Flex Dull, a compound that is used in Top Coats to maintain the vinyl's colour properties when flexed.

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

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

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

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

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:		
<input checked="" type="checkbox"/>	0.3	0.8

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:



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:



0.3

0.8

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:



0.4

80

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



5

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:



Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:



0.01

0.2

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:



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:



0.01

0.2

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:



0.01

1.6

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



3

Anticipated timelines for achieving the estimated reduction of the **creation** 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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

108-65-6, Propylene glycol methyl ether acetate

108-65-6, Propylene glycol methyl ether acetate

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.

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 PGMEA.

Use Targets

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

No quantity target		Quantity	Unit
<input type="checkbox"/>	or	0.13	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	5

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	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: **

PGMEA is a component of Zoldine XL-29SE Crosslinker , a compound that is used to improve the adhesion of dyes to the vinyl for water based top-coats in Marine vinyl products.

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

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

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

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

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:		
<input type="checkbox"/>	0.1	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.1	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:



0.14

80

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



5

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:



Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:



0.00

0.2

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:



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:



0.00

8.2

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:



0.00

1.6

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



3

Anticipated timelines for achieving the estimated reduction of the **creation** 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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

109-99-9, Tetrahydrofuran

109-99-9, Tetrahydrofuran

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.

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 THF.

Use Targets

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

No quantity target		Quantity	Unit
<input type="checkbox"/>	or	102	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	5

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	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: **

THF is used as a major component of the Clear Coat, which is used as a base carrier for the Top Coat in the printers.

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: **

This substance is not 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 **"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:		
<input type="checkbox"/>	102	80
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	74	80
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	8.2	80
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

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

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:		
<input type="checkbox"/>	1.4	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	1	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	1.4	80
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:		
<input type="checkbox"/>	0.03	0.2
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.02	0.2
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.03	1.6
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	3
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

1330-20-7, Xylene (all isomers)

1330-20-7, Xylene (all isomers)

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.

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 Xylene.

Use Targets

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

No quantity target	Quantity	Unit
<input type="checkbox"/>	or	1.7
		tonnes

What is the targeted timeframe for this reduction? *

No timeline target	years
<input type="checkbox"/>	or
	5

Description of targets

Creation Targets

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

No quantity target	Quantity	Unit
<input checked="" type="checkbox"/>	or	

What is the targeted timeframe for this reduction? *

No timeline target	years
<input checked="" type="checkbox"/>	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: **

Xylene 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 “**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:		
<input type="checkbox"/>	0.8	6
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.6	6
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:



0.1

6

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



5

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

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:



0.9

6

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:



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:



0.6

6

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:



0.9

80

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



5

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:



Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:



0.02

0.1

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:



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:



0.01

0.1

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:



0.02

1.6

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

N/A	years
<input type="checkbox"/>	<input type="text" value="3"/>
<input checked="" type="checkbox"/>	<input type="text"/>

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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name)

License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX): *

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?: *

64742-48-9, Hydrotreated heavy naphtha

64742-48-9, Hydrotreated heavy naphtha

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: **

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 Naphtha.

Use Targets

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

No quantity target		Quantity	Unit
<input type="checkbox"/>	or	0.08	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	3

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	or	

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?: *

No, we are implementing

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

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

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:		
<input type="checkbox"/>	0.08	1.6
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.08	1.6
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



3

Anticipated timelines for achieving the estimated reduction of the **creation** 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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

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 target		Quantity	Unit
<input type="checkbox"/>	or	6.6	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	5

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	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 "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:		
<input type="checkbox"/>	5.2	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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.5	30
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

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

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:		
<input type="checkbox"/>	1.4	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	1	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	1.4	80
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:	<input type="checkbox"/>	<input type="text" value="0.03"/>	<input type="text" value="0.2"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input type="checkbox"/>	<input type="text" value="0.02"/>	<input type="text" value="0.2"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input type="checkbox"/>	<input type="text" value="0.03"/>	<input type="text" value="1.6"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>

Timelines

	N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	<input type="checkbox"/>	<input type="text" value="3"/>
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	<input checked="" type="checkbox"/>	<input type="text"/>

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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name)

License Number of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

78-93-3, Methyl ethyl ketone

78-93-3, Methyl ethyl ketone

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.

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 MEK.

Use Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or	354	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	or	5

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline
target

years



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: **

MEK is used as a major component of the Clear Coat, which is used as a base carrier for the Top Coat in the printers. MEK is also used as a viscosity control agent during print runs and as a cleaning agent in many areas of the printing process.

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 "**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:		
<input checked="" type="checkbox"/>	315	67
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>	221	67
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		

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:



32

67

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

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



5

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

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:



38

8

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:



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:



26

8

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:



38

80

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

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	<input type="checkbox"/>
	<input type="text" value="5"/>
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	<input checked="" type="checkbox"/>
	<input type="text"/>

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Training related to toxics substance reduction

Which activities will be undertaken to implement these reduction options?

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

Training related to toxics substance reduction

Describe the option: *

LEAN Manufacturing Program.

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:		
<input type="checkbox"/>	<input type="text" value="0.75"/>	<input type="text" value="0.2"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:		
<input type="checkbox"/>	<input type="text" value="0.5"/>	<input type="text" value="0.2"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:		
<input type="checkbox"/>	<input type="text" value="0.75"/>	<input type="text" value="1.6"/>
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:		
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>

Timelines

N/A

years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:



3

Anticipated timelines for achieving the estimated reduction of the **creation** 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 substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

8052-41-3, Stoddard solvent

8052-41-3, Stoddard solvent

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.

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
<input type="checkbox"/>	or	0.17	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	5

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
<input checked="" type="checkbox"/>	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	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: **

Stoddard Solvent is a component of a dye that is used in Automotive topcoats.

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

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

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

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

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:		
<input type="checkbox"/>	0.2	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.2	8
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input checked="" type="checkbox"/>		
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:		
<input type="checkbox"/>	0.14	80
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:		
<input checked="" type="checkbox"/>		

Timelines

N/A	years
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Empty

Good operator practice or training

Changed production schedule to minimize equipment and feedstock changeovers

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 Program.

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:	<input type="checkbox"/>	<input type="text" value="0.00"/>	<input type="text" value="0.2"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input type="checkbox"/>	<input type="text" value="0.00"/>	<input type="text" value="0.2"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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:	<input type="checkbox"/>	<input type="text" value="0.00"/>	<input type="text" value="1.6"/>
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:	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>

Timelines

N/A	years	
Anticipated timelines for achieving the estimated reduction of the use of the toxic substance:	<input type="checkbox"/>	<input type="text" value="3"/>
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	<input checked="" type="checkbox"/>	<input type="text"/>

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 substance

at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

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?: *

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.

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 target	Quantity	Unit
<input checked="" type="checkbox"/>	0.02	tonnes

What is the targeted timeframe for this reduction? *

No timeline
target

years



or

3

Description of targets

Creation Targets

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

No quantity
target

Quantity

Unit



or

What is the targeted timeframe for this reduction? *

No timeline
target

years



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: **

Zinc is an ingredient in the compounds used to manufacture vinyl.

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

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

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): *

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

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.

<u>Substance</u>	<u>Date of Certified Plan</u>
•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