



National Pollutant Release Inventory (NPRI) and Partners



Canada

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SWIM » 2011 » Morbern Inc. » Morbern Inc. » Report Preview

* indicates a required field, ** indicates a conditionally required field

Plan Summary Preview

Company Details

Company Legal Name

Morbern Inc.

Company Address

80 Road South, (Ontario)

Report Details

NPRI ID

741

Facility Name

Morbern Inc.

Facility Address

80 Road South, (Ontario)

Update Comments

Activities

Contacts

Select the Facility Contacts

Facility Contacts

Please assign the appropriate contact under each category below.

Public Contact: *

Chris MacFarlane

Highest Ranking Employee

Jacques St. Denis

Person responsible for Toxic Substance Reduction Plan preparation

Dan Julien

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

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Physical Address

Address Line 1

City

Province/Territory **

Postal Code **

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

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Physical Address

Address Line 1

City

Province/Territory **

Postal Code **

Additional Information

Land Survey Description

National Topographical Description

NPRI Facility Location

Latitude (decimal degrees) *

Longitude (decimal degrees) *

UTM Zone

UTM Easting

UTM Northing

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: *

Last Name: *

Position: *

Telephone: *

Ext

Fax

Email: *

Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Highest Ranking Employee

First Name: *

Last Name: *

Position: *

Telephone: *

Ext

Fax

Email: *

Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Person responsible for the Toxic Substance Reduction Plan preparation

First Name: *

Last Name: *

Position: *

Telephone: *

Ext

Fax

Email: *

Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

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

Website address where the Plan Summary is posted for the public

File Name *

postmstr@morbern.com_20121217_095345.pdf

Date *

18/12/2012 10:01:31 AM

Plan Summary Submission

Electronic Submission

Company Name

Morbern Inc.

Facility Name

Report Submitted By (authorized delegate)

Dan Julien



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

108-88-3, Toluene

108-88-3, Toluene

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: **

Morbern will be implementing all reduction options mentioned for a 29% total reduction of toluene usage by 2017

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 substance is not created at the facility

Objectives, Targets and Description

Objectives

Objectives in plan: *

morbern will reduce the toluene uasge by using more waterbase finishes

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	6172	kg

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
--------------------	--	----------	------

What is the targeted timeframe for this reduction? *

No timeline
target

years



or

Description of Target

not created at the facility

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: **

toluene is used in solvent base coatings in the product mix and as a manufacturing aid (clen up)

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: *

will change some of our solvent base finishes to waterbase

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"/>	2.66	25
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 type="checkbox"/>	0.56	25
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"/>	2.02	25
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:



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:



0.21

25

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

Modified design or composition

Which activities will be undertaken to implement these reduction options?

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

Modified design or composition

Describe the option: *

tighter ink formulations will reduce usage by 1%

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:



0.1

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:



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

1

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"/>

Equipment or process modifications

Improved rinse equipment operations

Which activities will be undertaken to implement these reduction options?

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

Improved rinse equipment operations

Describe the option: *

installation of plastic liners in ink pans will reduce wash-ups of pans resulting in 1% decrease in toluene usage

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="0.1"/>	<input type="text" value="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:	<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 checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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="0.1"/>	<input type="text" value="12"/>
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="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

Other

Which activities will be undertaken to implement these reduction options?

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

Other

Describe the option: *

on site recycling extended to weekends

Estimates

N/A	tonnes	%
<input type="checkbox"/>	0.1	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:		
<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"/>		
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
<input type="checkbox"/>	5
Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance:	
<input checked="" type="checkbox"/>	

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: *

through lean improve training should reduce off spec. materials reformulations

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="0.1"/>	<input type="text" value="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:		
<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 type="checkbox"/>	<input type="text" value="0.01"/>	<input type="text" value="0.5"/>
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="0.08"/>	<input type="text" value="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:		
<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="0.01"/>	<input type="text" value="0.14"/>
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="5"/>
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

127-18-4, Tetrachloroethylene

127-18-4, Tetrachloroethylene

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: **

product substitution will result in 100% elimination of tetrachloroethylene by 2015

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: **

we do not create this substance

Objectives, Targets and Description

Objectives

Objectives in plan: *

to eliminate the usage of tetrachloroethylene by 2015

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	33	tonnes

What is the targeted timeframe for this reduction? *

No timeline target		years
<input checked="" type="checkbox"/>	or	2

Description of targets

50% reduction in 2013 and 50% reduction in 2014 by substitution

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

this product is not created at this facility

Reasons for Use

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

As a manufacturing aid

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

this product is used to wash the casting heads and transfer pumps

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: *

tetrachloroethylene will be substituted by a less toxic substance such as isopar/DINP or another substance being evaluated

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"/>	33	100
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"/>	3.5	10.5
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:



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:



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



Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Empty

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

Select the applicable reason or reasons **

Explanation of the reasons why no option will be implemented

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?: *

NA - 01, Antimony (and its compounds)

NA - 01, Antimony (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: **

Antimony Trioxide usage would be reduced by 50% in 2017

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: **

Antimony Trioxide not created at this facility

Objectives, Targets and Description

Objectives

Objectives in plan: *

to reduce the usage of substance by 50% by year 2017

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	68042	kg

What is the targeted timeframe for this reduction? *

No timeline target		years
<input type="checkbox"/>	or	4

Description of targets

17010.7kg in 2013, 17010.7kg in 2014, 17010.7kg in 2015, 17010.7kg in 2016

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

not created at this facility

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: **

used as a flame retardant

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: *

this substance will be replaced by a less toxic substance not on the list

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"/>	68	50
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 type="checkbox"/>	66	48.5
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"/>		
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:		

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:



4

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



Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Empty

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

Select the applicable reason or reasons **

Explanation of the reasons why no option will be implemented

Rationale for why the listed options were chosen for implementation

best option at this time that will do the job with a modest increase in price but less toxic for employees

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): *

TRSP0020

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): *

TRSP0020

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





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TOXIC REDUCTION ACTION PLAN SUMMARY - 2011

ANTIMONY TRIOXIDE - CAS # 1309-64-4

Antimony Trioxide is used as a fire retardant in Morbern's expanded vinyl fabrics at various percentages pending customer's fire proof specifications.

A variety of substances can be used to replace Antimony Trioxide for low flame retardant qualities. Based on laboratory trial, Morbern will be able to replace Antimony Trioxide by using a non toxic substance for 50% of their qualities.

Morbern will reduce the usage of Antimony Trioxide by 12.5% in 2013 - 12.5% in 2014 - 12.5% in 2015 - and 12.5% in 2016 for a Total of Reduction of 50% by 2017.

TETRACHLOROETHYLENE - CAS # 127-18-4

Tetrachloroethylene is a solvent used to wash the casting coating heads and coloured PVC transfer pumps. Tetrachloroethylene has great solvency, non flammable, fast drying and does not leave a residue.

Morbern will completely eliminate the usage of Tetrachloroethylene by material substitution. In 2013 Morbern will reduce the usage by 50% and another 50% in 2014. This will result in 100% elimination of Tetrachloroethylene by 2015.

TOLUENE - CAS # 108-88-3

Toluene is used as a manufacturing aid for washing, a viscosity reducer and formulation component in their urethane solvent base vinyl coatings.

Morbern will reduce Toluene usage by 5% each year for the next 5 years by material substitution - mainly water base finishes for a Total of 25% by 2017.


Morbern will also reduce Toluene usage by: (Total of 4% by 2017)

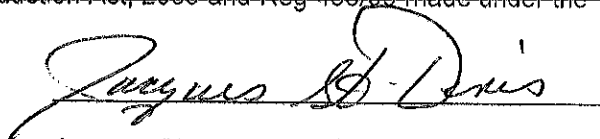
- Reducing off Spec Reformulation - 1%
- Tighter Weight Formulation (reduce waste) - 1%
- Usage of plastic liners in pans to reduce wash ups - 1%
- Recycling - 1%

Grand Total of Reduction Usage of 29% of Toluene by 2017.

CERTIFICATION BY CERTIFIED PLANNER AND HIGHEST RANKING EMPLOYEE:

As of November 30, 2012, I certify that I have read the toxic reduction plan and to my knowledge the information contained herein is accurate and complies with the Toxic Reduction Act, 2009 and Reg 455/09 made under the Act.


Dan Julien, Certified Planner, Licence#TSRP0020


Jacques St. Denis, President