National Pollutant Release Inventory (NPRI) and Partners

Delivery Mode

Rural Route Number

Address Line 1

PO Box





Inver	ntory (NPRI) and Par	tners							
Home	Submission Management	Help√	My Profile:Colir	n Welburn -	Logout	Ec.gc.	ca		
	on Summary Previev				* indicates a	required fiel	d, ** indica	ites a conditio	onally required fie
Com	pany Details								
	oany Legal Name bern Inc.								
	any Address Road South, (Ontario)								
-	ort Details								
NPRI 741									
	y Name bern Inc.								
	ty Address								
80 F	Road South, (Ontario)								
Upda	te Comments								
Activ	itios								
	tacts								
	ect the Facility Contacts								
	cility Contacts								
	Please assign the appropriate contac	t under each	category below.						
	Public Contact: *		category selection						
	Chris MacFarlane								
ì	Highest Ranking Employee								
	Jacques St. Denis								
·	Person responsible for Toxic Substan	ce Reduction	Plan preparation						
(Dan Julien								
Orga	anization Validation								
Co	mpany and Parent Company Info	rmation							
(Company Details								
	Company Legal Name: *			Morbe	ern Inc.				
	Company Trade Name: *			Morbe	ern Inc.				
	Business Number: *			1037	60948				
	Mailing Address								

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 verify the information and update it where required. Please note that any chase updates reflected in future reports, please ensure the information is updated "Refresh" button to trigger a reload of the SWIM information. Please note all	nges made here will only be reflected in SWIM. After making updates in SWI	in this plan summary. To ensure M, return here and click the
Facility Information		
Facility Name: *	Morbern Inc.	
NAICS Code: *		313320
NPRI Id: *		000000741
ON Reg 127/01 Id		6243
		02.13
Facility Mailing Address		
Delivery Mode		
PO Box		
Rural Route Number		
Address Line 1		
City *		
City * Province/Territory **		
Province/Territory **		
Province/Territory ** Postal Code: **		
Province/Territory ** Postal Code: ** Physical Address		
Province/Territory ** Postal Code: ** Physical Address Address Line 1		

Additional Information

Land Survey Description

NPRI Facility Location

National Topographical Description

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	
РО Вох	
Rural Route Number	
Address Line 1	
City *	
Province/Territory **	
Postal Code: **	
Highest Danking Campleyee	
Highest Ranking Employee First Name: *	
Last Name: *	
Position: *	
Telephone: *	
Ext	
Fax	
Email: *	
Mailing Address	
Delivery Mode	
РО Вох	
Rural Route Number	

Address Line 1	
City *	
Province/Territory **	
Postal Code: **	
Person responsible for the Toxic Substance Reduction Plan prep	aration
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 En Plan for which the Plan Summary is being submitted are required. P Do not upload any certification statements that are dated after Decemb	
Comments	
Website address where the Plan Summary is posted for the public	
File Name *	Date *
postmstr@morbern.com_20121217_095345.pdf	18/12/2012 10:01:31 AM
Plan Summary Submission	
Electronic Submission	
Company Name	

Morbern Inc.
Facility Name

	Morbern In	IC.			
	Report Subr	nitted By (authorized delegate)			_
	Dan Julien				
	M	I, the authorized delegate, ack Summary for the identified faci		ntinue" button, I am electroni	cally submitting the facility TRA Plan
Subs	stances				
108	3-88-3, Tol	luene			
10)8-88-3, Tolu	uene			
S	ubstances (Section Data			
	Statement of Are the fo	of Intent ollowing included in the Facility's	s TRA Plan?		
	Use	,			
	Is there	e a statement that the owner o	r operator of the facility intends to	reduce the use of the toxic su	bstance at the facility?: st
	Morbe	exact statement of the intent to ern will be implementing all reduction of toluene usa		Plan to reduce the use of the	toxic substance at the facility: **
	If `no',	reason in the facility's TRA Plan	n for no intent to reduce the use of	the toxic substance at the facil	ity: **
	Creation				
	Is there	e a statement that the owner o	r operator of the facility intends to	reduce the creation of the tox	ic substance at the facility?: *
	If 'yes',	exact statement of the intent t	that is included in the facility's TRA	Plan to reduce the creation of	the toxic substance at the facility: **
		reason in the facility's TRA Plan ubstance is not created at the f	for no intent to reduce the creation	n of the toxic substance at the	facility: **
	Objectives	, Targets and Description			
	Objective	es			
	Objecti	ves in plan: *			
	morbe finishe	ern will reduce the toluene uas es	ge by using more waterbase		
	Use Targ	gets			
	What is	s the targeted reduction in us	se of the toxic substance at the fa	acility? *	
		No quantity target	Quantity	Unit	
		☐ or	6172	kg	
	What is	s the targeted timeframe for	this reduction? *		
		No timeline target	years		
		or or	5		
	Descrip	tion of targets			
	Creation	Targets			
	What is	s the targeted reduction in cr	reation of the toxic substance at	the facility? *	
		No quantity target	Quantity	Unit	

What is the	e targeted timefra	me for	this reduction? *			
	imeline arget		years			
S	7	or]	
Description	of Target				,	
not create	d at the facility					
Reasons for	Use					
Why is the	toxic substance use	ed at the	e facility?: *			
For on-site	e use/processing					
Summarize	why the toxic subs	tance is	used at the facility: **			
	used in solvent ba facturing aid (clen		ngs in the product mix and			
Reasons for	Creation					
Why is the	toxic substance cre	ated at	the facility?: *			
This subst	ance is not created	l at the	facility			
Summarize	why the toxic subs	tance is	created at the facility: **			
Tovio Poduotio	n Options for Imp	lomont	otion			
TOXIC NEGUCIO	п Ориона юг ипр	iemeni	auon			
Description of	of the toxic reduct	ion opt	ion(s) to be implemented			
Is there a s	tatement that no c	ption w	ill be implemented?: *			
No, we are	e implementing					
If you answ	vered " Yes " please	select t	gn or reformulation, etc.). he appropriate reason(s) in the de an explanation in the text box			s implemented for this substance a
Materials of	or feedstock subs	titution				
Substitu	ted materials					
Which	activities will be	underta	ken to implement these reduc	tion option	ns?	
	activities will be ur	ndertake	n to implement these reduction	options?: *		1
Dogorik	as the ention. *					J
	pe the option: * hange some of our	solvent	: base finishes to waterbase]		
				u .		
Estima	ates					
	N/A	tonnes	5	%		
Estir		t by whi	ch the use of the toxic substance	at the fac	ility will be reduced as a i	result of implementing the option:
		2.66		25		
Estir optio		t by whi	ch the creation of the toxic subs	tance at th	e facility will be reduced	as a result of implementing the
	$\overline{\mathbf{v}}$					
	nate of the amoun	-	ch the toxic substance contained	l in the pro	educt leaving the facility v	will be reduced as a result of
		0.56		25		
	nate of the amoun	-	ch the total releases to air of th	e toxic sub	stance at the facility will	be reduced as a result of
·		2.02		25		
	nate of the amoun	t by whi	ch the total releases to water o			will be reduced as a result of
	$\overline{\lor}$					

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

	11.								
\overline{v}									
Estimate of the amount reduced as a result on			including tailing	g and v	waste rock) of	the toxic sub	stance a	at the facility w	ıill be
\overline{v}									
Estimate of the amount implementing this option		e disposals off-site	of the toxic subs	stance	at the facility	will be reduc	ed as a	result on	
	0.21		2	25					
Estimate of the amount implementing this optio		tal recycling off-site	of the toxic sub	bstanc	e at the facilit	y will be redu	ced as	a result on	
Timelines									
N/A		years							
Anticipated timelines fo	or achieving t	<u>- </u>	on of the use of	the to	oxic substance	:			
		5							
Anticipated timelines fo	or achieving t		on of the creati e	on of	the tovic subst	ance:			
Andicipated differences to	n acmeving i	ne estimated reduction	on or the creatic	OII OI	the toxic subst	.ance.			
-	l								
Product design or reformula	ntion								
Product design of reformula	illOH								
Modified design or compo	osition								
Which activities will be	undertaken	to implement these	reduction opti	ions?					
Which activities will be un	ndertaken to	implement these red	uction options?:	*					
Modified design or comp	osition								
Describe the option: * tighter ink formulations	will reduce u	sage by 1%							
Estimates									
Estimates N/A	tonnes		%)					
N/A Estimate of the amount		e use of the toxic sul			will be reduce	d as a result (of imple	ementing the o	ption
N/A		e use of the toxic sul		acility	will be reduce	d as a result (of imple	ementing the o	ption
N/A Estimate of the amount Estimate of the amount option:	t by which th		ostance at the fa	acility L					
N/A Estimate of the amount Estimate of the amount	t by which th		ostance at the fa	acility L					
N/A Estimate of the amount Estimate of the amount option:	t by which the 0.1 t by which the t by which the	e creation of the tox	ostance at the fa	acility L the fa	cility will be re	duced as a re	esult of	implementing t	the
N/A Estimate of the amount option: Estimate of the amount option:	t by which the 0.1 t by which the t by which the	e creation of the tox	ostance at the fa	acility L the fa	cility will be re	duced as a re	esult of	implementing t	the
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the optio Estimate of the amount implementing the optio	t by which the 0.1 t by which the t by which the n:	e creation of the tox e toxic substance co l	ic substance at the fa	acility the fa	cility will be re	duced as a re	esult of	implementing t d as a result of	the
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option Estimate of the amount implementing the option implementing the option implementing the option	t by which the 0.1 t by which the t by which the n:	e creation of the tox e toxic substance co e total releases to a	ic substance at the fa	acility the fa	cility will be re	duced as a re acility will be ity will be red	reduce	implementing t d as a result of a result of	the -
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance co e total releases to a	ic substance at the fa	acility the fa	cility will be re	duced as a re acility will be ity will be red	reduce	implementing t d as a result of a result of	the -
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option Estimate of the amount implementing the option Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance co e total releases to a	ic substance at the fa	acility the fa	cility will be re	duced as a re acility will be ity will be red	reduce	implementing t d as a result of a result of	the -
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to w	ic substance at the fa	the fa	cility will be re	duced as a reactive acility will be red	reduced as	implementing to do as a result of do as a result of do as a result of	the -
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to w	ic substance at the fa	the fa	cility will be re	duced as a reactive acility will be red	reduced as	implementing to do as a result of do as a result of do as a result of	the -
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to we e total releases to la e total releases to la	ic substance at the far ic substance in the point of the toxic substance of the toxic substance is the far ic substance in the far ic substance in the far ic substance is the far ic substance in the	the fa	cility will be re	duced as a reactive acility will be reactive will be reactive will be reactive.	reduced as reduced	implementing to do as a result of	:
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to we e total releases to la e total releases to la	ic substance at the far ic substance in the point of the toxic substance of the toxic substance is the far ic substance in the far ic substance in the far ic substance is the far ic substance in the	the fa	cility will be re	duced as a reactive acility will be reactive will be reactive will be reactive.	reduced as reduced	implementing to do as a result of	:
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to w e total releases to la e disposals on-site (g this option:	ic substance at the far ic substance in the point of the toxic substance of the toxic substance of the toxic substance is including tailing.	the fa	cility will be re	duced as a reactive acility will be reactive will be reactive will be reactive will be reactive will be reactive.	reduced as reduced educed stance a	implementing to do as a result of do as a result of do as a result of the facility we at the facility we	:
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option Estimate of the amount reduced as a result on Estimate of the amount	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to w e total releases to la e disposals on-site (g this option:	ic substance at the far ic substance in the point of the toxic substance of the toxic substance of the toxic substance is including tailing.	the fauther the fa	cility will be re	duced as a reactive acility will be reactive will be reactive will be reactive will be reactive will be reactive.	reduced as reduced educed stance a	implementing to do as a result of do as a result of do as a result of the facility we at the facility we	:
Estimate of the amount option: Estimate of the amount option: Estimate of the amount implementing the option Estimate of the amount implementing this option	t by which the control of the contro	e creation of the tox e toxic substance con e total releases to a e total releases to w e total releases to la e total releases to la e disposals on-site (g this option:	ic substance at the far ic sub	the fauther the fa	cility will be re	duced as a reactive acility will be reduced as a reactive will be reduced acility will be reduced will be reduced.	reduced as a ed as a	implementing to do as a result of do as a result of do as a result of the facility we result on	:

Timelines		
N/A		years
Anticipated timelines for a	chieving	the estimated reduction of the use of the toxic substance:
		5
Anticipated timelines for a ✓	ichieving	the estimated reduction of the creation of the toxic substance:
Equipment or process modifications	ations	
Improved rinse equipment of	peration	s
Which activities will be und	dertaken	n to implement these reduction options?
Which activities will be under	rtaken to	implement these reduction options?: *
Improved rinse equipment	operatio	ns
Describe the option: *		
installation of plastic liners pans resulting in 1% decre		
Estimates N/A to	onnes	%
<u> </u>		he use of the toxic substance at the facility will be reduced as a result of implementing the option:
_	.1	1
		he creation of the toxic substance at the facility will be reduced as a result of implementing the
V		
implementing the option:	y which tl	he toxic substance contained in the product leaving the facility will be reduced as a result of
~		
implementing the option:	y which tl	he total releases to air of the toxic substance at the facility will be reduced as a result of
M		
implementing the option:	y which tl	he total releases to water of the toxic substance at the facility will be reduced as a result of
M		
implementing the option:	y which tl	he total releases to land of the toxic substance at the facility will be reduced as a result of
⋈		
Estimate of the amount by reduced as a result on imp		he disposals on-site (including tailing and waste rock) of the toxic substance at the facility will be ng this option:
		he disposals off-site of the toxic substance at the facility will be reduced as a result on
	.1	12
0.		otal recycling off-site of the toxic substance at the facility will be reduced as a result on
™		
Timelines		
N/A		years
Anticipated timelines for a	chieving	the estimated reduction of the use of the toxic substance:
Anticipated timelines for a	chicvins	5 the estimated reduction of the creation of the toxic substance:
Anticipated timelines for a	icnieving	the estimated reduction of the creation of the toxic substance:

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Which activities will be	undertaker	to implement these reduc	ction options	?	
Which activities will be un	ndertaken to	implement these reduction	options?: *		1
Other					
Describe the option: *			in .		
on site recycling extend	ded to week	ends			
Estimates					
N/A	*		%		
	tonnes t by which t	he use of the toxic substance		cv will be reduced as a	result of implementing the optic
	0.1		1	-,	
Estimate of the amoun option:		he creation of the toxic subs		facility will be reduced	as a result of implementing the
V					
Estimate of the amoun implementing the optic		he toxic substance containe	d in the prod	uct leaving the facility	will be reduced as a result of
M					
Estimate of the amoun implementing the optic		he total releases to air of th	e toxic subst	ance at the facility will	be reduced as a result of
M					
Estimate of the amoun implementing the option		he total releases to water o	f the toxic su	bstance at the facility v	vill be reduced as a result of
$\overline{\vee}$					
Estimate of the amoun implementing the optic		he total releases to land of	the toxic subs	stance at the facility wi	ll be reduced as a result of
M					
reduced as a result on			ng tailing and	d waste rock) of the tox	ic substance at the facility will I
M					
implementing this option	•	he disposals off-site of the t	coxic substan	ce at the facility will be	reduced as a result on
M					
implementing this option		otal recycling off-site of the	toxic substa	nce at the facility will b	e reduced as a result on
M					
Timelines					
Timelines					
N/A		years			
· _	or achieving	the estimated reduction of the	ne use of the	toxic substance:	
Г		5			
•	or achieving	the estimated reduction of the	ne creation o	of the toxic substance:	
✓					
roved inventory manage	ement or pu	rchasing techniques			
Empty					
od operator practice or t	raining				
raining related to toxics	substance	reduction			
Which activities will be	undertaker	to implement these reduc	ction options	?	
Which activities will be u	ndertaken to	implement these reduction	options?: *		1
Training related to toxio	cs substance	reduction			
Describe the option: *			10		
through lean improve tr materials reformulations	_	uld reduce off spec.			

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 option:	by which the creation of the toxic substan	ce at the facility will be reduced as a result of implementing the
V		
Estimate of the amount implementing the option		the product leaving the facility will be reduced as a result of
	0.01	0.5
Estimate of the amount implementing the option	•	exic substance at the facility will be reduced as a result of
	0.08	1
Estimate of the amount implementing the option		e toxic substance at the facility will be reduced as a result of
▽		
Estimate of the amount implementing the option		toxic substance at the facility will be reduced as a result of
V		
	by which the disposals on-site (including timplementing this option:	tailing and waste rock) of the toxic substance at the facility will be
Estimate of the amount implementing this optio		c substance at the facility will be reduced as a result on
	0.01	0.14
Estimate of the amount implementing this optio		cic substance at the facility will be reduced as a result on
⋈		
Timelines N/A	years	
_	r achieving the estimated reduction of the L	ise of the toxic substance:
	5	
Anticipated timelines fo	r achieving the estimated reduction of the $oldsymbol{c}$	creation of the toxic substance:
✓		
dentify at least one mplemented at you	reason why no option to redung facility:	uce the use or creation of this substance was
Select the applicable reason o	r reasons **	
explanation of the reasons wh	y no option will be implemented	
Sationale for why the listed on	otions were chosen for implementation	
, , , , , , , , , , , , , , , , , , , ,		
General description of any acti t the facility that are outside		of the facility to reduce the use and creation of the toxic substance
ubstance (format TSRPXXXX):	•	nmendations in the toxic substance reduction plan for this
TRSP0020		
lame of the toxic substance re lame Last Name)	eduction planner who made recommendatio	ns in the toxic substance reduction plan for this substance (First

Name of the toxic substance reduction planner who has certified the toxic substance reduction plan for this substance (First Name Last

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

TSRPXXXX): *
TRSP0020

ity: ** ?: * facility: **
?: *
?: *
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?: *
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?: *
?: *
?: *
?: *
?: *
?: *
?: *
facility: **
]
J
1

No timeline target	years	
V	or	
Description of Target		
this product is not created	d at this facility	
Reasons for Use		
Why is the toxic substance	used at the facility?: *	
As a manufacturing aid		
Summarize why the toxic s	ubstance is used at the facility: **	
	ash the casting heads and transfer	
easons for Creation		
Why is the toxic substance	created at the facility?: *	
This substance is not crea	ited at the facility	
Summarize why the toxic s	ubstance is created at the facility: **	
ic Reduction Options for I	mplementation	
·		
escription of the toxic red	uction option(s) to be implemented	d
Is there a statement that n	o option will be implemented?: *	
No, we are implementing		
or feedstock substitution, P	roduct design or reformulation, etc.).	
		in the picklist below for why no option was implemented for this substance a
your facility. You may choo	se to provide an explanation in the te	ext box that is beneath the picklist.
Materials or feedstock su	petitution	
Materials of TeedStock St	DSUIGUOT	
Substituted materials		
	be undertaken to implement these	
Which activities will be Substituted materials	e undertaken to implement these redu s	uction options?: *
Describe the option: *		
	will be substituted by a less toxic	
-	opar/DINP or another substance beir	ng
Catimatas		
Estimates		
N/A	tonnes	%
Estimate of the amo	ount by which the use of the toxic sub	ostance at the facility will be reduced as a result of implementing the option:
	33	100
Estimate of the amo	ount by which the creation of the toxi	ic substance at the facility will be reduced as a result of implementing the
·		
Estimate of the amo		ntained in the product leaving the facility will be reduced as a result of
p.ceeee.		
Estimate of the amo		r of the toxic substance at the facility will be reduced as a result of
	3.5	10.5
Estimate of the amo		ater of the toxic substance at the facility will be reduced as a result of
Estimate of the amo		nd of the toxic substance at the facility will be reduced as a result of
,		

Estimate of the amount by which the disposals off-site of the toxic substance at the facility will be reduced as a result on implementing this option.	Estimate of the amount reduced as a result on i	-	the disposals on-site (including tailing and waste rock) of the toxic substance at the facility will be ng 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	▽			
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:			he disposals off-site of the toxic substance at the facility will be reduced as a result on	
Timelines N/A years Anticipated timelines for achieving the estimated reduction of the use of the toxic substance: 2 Anticipated timelines for achieving the estimated reduction of the creation of the toxic substance: Experiment or process modifications Empty Product design or reformulation Empty Equipment or process modifications Empty Spill or leak prevention Empty On-site reuse, recycling or recovery Empty Improved inventory management or purchasing techniques Empty Good operator practice or training Empty Identify at least one reason why no option to reduce the use or creation of this substance was implemented at your facility: Select the applicable reason or reasons ** Explanation of the reasons why no option will be implemented Explanation of the reasons why no option will be implemented at the facility that are outside of the pian Caneral 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 pian License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name Last Name) Name of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name) License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (First Name)		29.5	89.5	
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What version of the plan is this summary based on?: *

New Plan 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? 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?: * 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 Quantity Unit target Г or 68042 kg What is the targeted timeframe for this reduction? * No timeline years target П 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? * Quantity No quantity Unit target 40 or What is the targeted timeframe for this reduction? * No timeline years target

140

or

Description of Target			
not created at this facility			
Reasons for Use			
Why is the toxic substance us	sed at the facility? *		
As a formulation component			
Summarize why the toxic sub	ostance is used at the facility: **		
used as a flame retardant	,		
Reasons for Creation			
	roated at the facility?: *		
Why is the toxic substance cr This substance is not create			
	ostance is created at the facility: *	**	
Summarize why the toxic sub	stance is created at the facility.		
Toxic Reduction Options for Im	plementation		
Description of the toxic reduc	ction option(s) to be implement	ted	
Is there a statement that no	option will be implemented?: *		
No, we are implementing			
-	question, please add the option(solute design or reformulation, etc.	s) under the appropriate Toxic Substance Reduction Categories (e.g. Ma.).	iterials
) in the picklist below for why no option was implemented for this subst text box that is beneath the picklist.	ance at
Materials or feedstock sub	stitution		
Cultistitute durante viele			
Substituted materials			
Which activities will be	e undertaken to implement thes	se reduction options?	
Which activities will be u	undertaken to implement these re	duction options?: *	
Substituted materials			
Describe the option: *			
this substance will be on the list	replaced by a less toxic substance	e not	
on the list			
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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 an 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 #lanner, Licence#TSRP0020

Jacques St. Denis, President