#### Government Gouvernement of Canada du Canada

Single Window Reporting

Canada	l
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## Plan Summary Preview Company Details

Company Legal Name:

Apotex Inc.

Company Address:

150 Signet Drive, Toronto (Ontario)

## **Report Details**

## Facility:

Apotex Inc. Etobicoke site

## Facility Address:

50 Steinway Boulevard, Toronto (Ontario)

Update Comments:

## Activities

## **Facility Contacts**

## **Facility Contacts**

Please assign the appropriate contact under each category below.

Public Contact: \*

Elie Betito

Highest Ranking Employee:

Person responsible for preparing the toxic substance reduction plan:

## **Organization Validation**

The information in this section was extracted from the Single Window Information Manager (SWIM) at the time that this report was created. To load up-to-date SWIM information, click "Refresh from SWIM".

Changes made here will be reflected in this report only and not in SWIM.

## **Company and Parent Company Information**

mpany Details	
Company Legal Name: *	
Apotex Inc.	
Company Trade Name: *	
Apotex Inc.	
Company Trade Name: * Apotex Inc. Business Number: *	

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	~		

iling	Address	
Del	ivery Mode:	
PO	Box	
Rur	al Route Number	
Add	dress Line 1	
	150 Signet Drive	
City	1*	
Тс	pronto	
Pro	vince/Territory**	
0	ntario	
Pos	stal Code: **	

#### Physical Address

Address Line 1
150 Signet Drive
City
Toronto
Province/Territory
Ontario
Postal Code
M9L1T9
Additional Information
Land Survey Description
National Topographical Description

## Parent Companies

Company Legal Name: *	
Apotex Inc.	
Percentage owned: *	
100.00	
Business Number: *	
100234897	

PO Box

Rural Route Number

Address Line 1

150 Signet Drive

City\*

Toronto

Province/Territory\*\*

Ontario

Postal Code: \*\*

M9L1T9

#### Physical Address

Address Line 1
150 Signet Drive
City
Toronto
Province/Territory
Ontario
Postal Code
M9L1T9
Additional Information
Land Survey Description
National Topographical Description

## **Facility Validation**

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Changes made here will be reflected in this report only and not in SWIM.

acility Information		
Facility: *		
Apotex Inc. Etobicoke site		
NAICS Id: *		
325410		
NPRI Id:*		

0000010721	
0000010731	

ON Reg 127/01 Id:

10775

## Mailing Address

Delivery Mode:

PO Box

Rural Route Number

Address Line 1

150 Signet Drive

City\*

Toronto

Province/Territory\*\*

Ontario

Postal Code: \*\*

M9L1T9

### **Physical Address**

Address Line 1 50 Steinway Boulevard City Toronto Province/Territory Ontario Postal Code M9W6Y3

Additional Information

Land Survey Description

National Topographical Description

### Geographical Address

Latitude

43.75080

Longitude

-79.62550

UTM Zone\*\*

17	
UTM Easting**	
610660	
UTM Northing**	
4845113	

## **Contact Validation**

The information in this section was extracted from the Single Window Information Manager (SWIM) at the time that this report was created. To load up-to-date SWIM information, click "**Refresh from SWIM**".

Changes made here will be reflected in this report only and not in SWIM.

cts	
olic Contact:	
First Name: *	
Elie	
Last Name: *	
Betito	
Position: *	
Director, Government Relations	
Telephone: *	
4167499300	
Ext:	
7366	
Fax:	
Email: *	
ebetito@apotex.com	
Mailing Address	
Delivery Mode:	
PO Box	
Rural Route Number	
Address Line 1	
200 Barmac Drive	
City*	
Toronto	
Province/Territory**	

M9L 2Z7

## Employees

Employees

Number of Full-time Employees: \*

1141

#### **Substances**

#### 64-17-5, Ethyl Alcohol

64-17-5, Ethyl Alcohol

#### Substances Section Data

#### Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?\*

Yes

If 'yes', provide the exact statement of intent: \*\*

Apotex Inc. is committed to reviewing our
environmental aspects and continuously improving our
environmental programs. Whenever feasible, we will
reduce or eliminate the use and releases of ethyl
alcohol in compliance with all Federal, Provincial and
Municipal Regulations.

If 'no', what rationale is specified in the plan for not using less of this substance?\*\*

#### Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?\*

No

If 'yes', provide the exact statement of intent: \*\*

If 'no', what rationale is specified in the plan for not creating less of this substance?: \*\*

Ethyl alcohol is not created through any proces	is at
Apotex Inc.	

#### **Objectives, Targets and Description**

#### **Plan Objectives**

Objectives in plan:\*

Our goal is to identify and implement practical solutions that will increase efficiencies associated with the use of ethyl alcohol.

Toxic Substance Use Targets

No target or   Immeriance target: or   No target or   years   Description of use targets:   e Substance Creation Targets   Reduction target:   Ouantity   Unit   Immeriance target:   Ouantity   Unit   Immeriance target:   Immeriance target: <t< th=""><th></th><th></th><th>Quantity</th><th>Unit</th><th></th></t<>			Quantity	Unit	
Timeframe target:	✓ No target	or			
No target or   years   Description of use targets:   c substance Creation Targets   Reduction target:   Ouantity   Wo target   or   No target   or   years   Description of creation targets:   This substance is used at the facility: **   Production Cleaning, 'Used' in cleaning, is used in the facility: **   This substance is not created at the facility: **   This	Fimeframe target:*				
No target or   years   Description of use targets:   c Substance Creation Targets   Reduction target:   Ouantity   Unit   Imeframe target:   Or   Imeframe target:   Imeframe target:   Or   No target   Or   No target   Or   No target   Or   Imeframe target:   Imeframe target:   Imeframe target:   Or   Imeframe target:   Production of creation targets:   Imeframe target:   Or No target Or years Description of creation targets:   Imeframe target:   Production cleaning target Summarize why this substance is used at the facility: ** Production Cleaning - Used in cleaning activities calling for denatured ethanol. Laboratories - Small amount (equal to 1% of amount used for cleaning) is used in the facility of damount used for cleaning activities calling for denatured ethanol. Laboratories - Small amount (equal to 1% of amount used for cleaning) is used in the facility of the origen of the facility is used in the facil	_				
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If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).

If 'Yes', explain why no option will be implemented: \*\*

No viable reduction opportunities were identified. Ethyl
alcohol is predominantly used in production as a
cleaning agent. Any alteration in its use could have a
negative impact on the products manufactured. Apotex
must follow strict cleaning protocols to ensure the
safety of our products and to meet regulatory
requirements. The other area where ethyl alcohol is
used is within the laboratories. The amount used is
insignificant and as a result, no options were identified
that were economically feasible.

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

Empty

Spill or leak prevention

Empty

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Empty

Good operator practice or training

Empty

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):\*

TSRP0141

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

TSRP0141

Which version of the plan is reflected in this summary?\*

New Plan

## NA - M10, PM2.5 - Particulate Matter <= 2.5 Microns

NA - M10, PM2.5 - Particulate Matter <= 2.5 Microns

#### **Substances Section Data**

Statement of Intent

No		
If 'yes', provide the exact stateme	ent of intent: * *	
If includent rationals is specified	in the plan for not using loss of this s	ubstance2**
Particulate matter is not used a	at Apotex, only created.	ubstance?
ation		
Does the plan include a statement substance at their facility?*	t that stipulates the owner or operato	r's intent to create less of this toxic
Yes		
If 'yes', provide the exact stateme	ent of intent: **	
Apotex Inc. is committed to re-	viewing our	
environmental aspects and cor environmental programs. When	ntinuously improving our never feasible, we will	
reduce or eliminate the release Matter in compliance with all F	es of PM2.5 Particulate ederal, Provincial and	
Municipal Regulations.		
IT 'no', what rationale is specified.	In the plan for not creating less of the	s substance? **
If 'no', what rationale is specified		s substance?: * *
		s substance?: **
		s substance?: **
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Dijectives in plan: * Our goal is to identify, investig implement practical solutions t efficiencies associated with the Particulate Matter.	ate and where possible, hat will increase release of PM2.5	s substance?: **
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<b>⋉</b> No target	or			
Timeframe target:				
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This substance is used at the fac	cility: * the facility			
Summarize why this substance	s used at the facility	**		
easons for Creating this Toxic Substan This substance is created at the As a by-product	nce facility: *			 
Summarize why this substance	is created at the facil	lity: * *		
Production operations - Durin Apotex's products, particulate released into the air. A small captured by the filters and re- environment. Diesal combust are used as an emergency po- are generated during the com- released to air. Natural gas c is used in the production of s Particulates are generated du Natural Gas and are released	g the manufacturing matter is created a percentage is not leased into the ion - Diesel generato wer source. Particula rombustion of Diesel an ombustion - Natural team and heat. uring the combustion to air	of nd ors ates d are gas of		
c Reduction Options for Impleme	entation			
oxic substance reduction option(s) to	be implemented:			
Does the plan specify that no to Yes	xic reduction option	will be implei	nented?*	

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).

If 'Yes', explain why no option will be implemented: \*\*

Particulate matter is generated during the manufacturing process. Investigations revealed that the only means of reducing the release of this material is to reduce the raw materials entering the process and to increase the efficiency of the filters. Neither of these options are economically feasible. Particulates are also created in the combustion of diesel and natural gas. Changing these fuel types or the equipment that utilizes them would also not be economically feasible.

Materials or feedstock substitution

Empty

Pr	oduct design or reformulation
	Empty
Ec	uipment or process modifications
	Empty
Sp	ill or leak prevention
	Empty
Or	n-site reuse, recycling or recovery
	Empty
Im	proved inventory management or purchasing techniques
	Empty
Go	ood operator practice or training
	Empty
R	ationale for choosing these options for implementation.
L	
Sı fa	ummary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the cility:
Lie (fe	cense number of the toxic substance reduction planner who made the recommendations for this substance ormat TSRPXXXX):*
	TSRP0141
Lie TS	cense number of the toxic substance reduction planner who certified the plan for this substance (format GRPXXXX):*
	TSRP0141
W	hich version of the plan is reflected in this summary?*
	New Plan
, Ace	tonitrile
5-8, A	cetonitrile
stance	es Section Data
ateme	nt of Intent
Use	
Do at	bes the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance their facility?*
	Yes
lf	'yes', provide the exact statement of intent: **
	Apotex Inc. is committed to reviewing our environmental aspects and continuously improving our environmental programs. Whenever feasible, we will reduce or eliminate the use and releases of acetonitrile in compliance with all Federal, Provincial and Municipal Regulations.

If 'no', what rationale is specified in the plan for not using less of this substance?\*\*

Creation

No				
If 'yes', provide the exact statem	ent of intent: * *			
If 'no', what rationale is specified	in the plan for not	creating less of t	nis substance?:**	
Acetonitrile is not created thro Apotex Inc.	ugh any process at			
tives, Targets and Description				
n Objectives				
Objectives in plan: *				
Our goal is to identify, investig implement practical solutions to efficiencies associated with the	ate and where poss hat will increase use of acetonitrile.	sible,		
ic Substance Use Targets				
Reduction target:*				
		Quantity	Unit	
✓ No target	or			
Timeframe target:*				
	or			
		years		
Description of use targets:				
ic Substance Creation Targets				
Reduction target:*				
		Quantity	Unit	
Mo target	or			
Timeframe target:				
V	or			
No target		years		
Description of creation targets:				
1 5				

This substance is used at the facility: \*

As a physical or chemical processing aid

Summarize why this substance is used at the facility: \*\*

Laboratories - Used in High-Performance Liquid Chromatography (HPLC) testing.

**Reasons for Creating this Toxic Substance** 

This substance is created at the facility: \*

This substance is not created at the facility

Summarize why this substance is created at the facility: \*\*

#### **Toxic Reduction Options for Implementation**

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?\*

No

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation).

If 'Yes', explain why no option will be implemented: \*\*

Materials or feedstock substitution

Empty

Product design or reformulation

Empty

Equipment or process modifications

Other

Which activities will be undertaken to implement these reduction options?

Select an option: \*

Other

Describe the option: \*

Laboratory testing - In making sample solvent solution and mobile phase, chemists often
prepare excess solution for contingency.
so chemists measure and make only what is actually required (e.g. 1.5x instead of 2x).

Estimates

Estimated reduction in the toxic substance attributed to the implementation of this option:

Select All

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: N/A 2.7 tonnes

25	
%	
Estimate of the amount by w reduced as a result of impler	which the <b>creation</b> of the toxic substance at the facility will be menting the option:
N/A	
	tonnes
%	
Estimate of the amount by w facility will be reduced as a r	hich the toxic substance <b>contained in the product</b> leaving the result of implementing the option:
N/A	toppos
	tonnes
0/	
Fetimate of the amount by w	which the total <b>releases to air</b> of the toxic substance at the facility
will be reduced as a result of	f implementing the option:
$\checkmark$	
N/A	tonnes
%	
Estimate of the amount by w facility will be reduced as a r	which the total <b>releases to water</b> of the toxic substance at the result of implementing the option:
N/A	
	tonnes
%	
Estimate of the amount by w facility will be reduced as a r	/hich the total <b>releases to land</b> of the toxic substance at the result of implementing the option:
N/A	tonnes
	LOTTICS
%	
Estimate of the amount by w	which the <b>disposals on-site</b> (including tailing and waste rock) of
the toxic substance at the fa	cility will be reduced as a result on implementing this option:
$\checkmark$	
N/A	tonnes
%	
Estimate of the amount by w will be reduced as a result or	which the <b>disposals off-site</b> of the toxic substance at the facility n implementing this option:
N/A	2.7
	tonnes
25	
%	which total recycling off_site of the toxic substance at the facility
will be reduced as a result or	n implementing this option:
N/A	tonnes
%	
melines	
Anticipated timeline for achie Select All	eving the estimated reduction
Anticipated timelines for ach	ieving the estimated reduction of the <b>use</b> of the toxic substance:
	1
N/A	years
Anticipated timelines for ach substance:	ieving the estimated reduction of the <b>creation</b> of the toxic
	years

Modified equipment, layout or piping

Which activities will be undertaken to implement these reduction options?

Select an option: \*

|--|--|

Describe the option: \*

R&D laboratory testing - Use automated
sampling equipment (TPW3 autosampler) to
reduce number of individual experiments
requiring acetonitrile as a solvent. Note that this
equipment was installed in 2013 and
implemented for the methanol reduction. It will
be further utilized to reduce acetonitrile use in
2014.

#### Estimates

Estimated reduction in the toxic substance attributed to the implementation of this option:

Select All	
Estimate of the amount by which the <b>use</b> of the analysis of t	he toxic substance at the facility will be reduced
as a result of implementing the option:	0.17
N/A	tonnes
16	tonnes
%	
Estimate of the amount by which the <b>creatio</b> reduced as a result of implementing the optio	n of the toxic substance at the facility will be on:
N/A	
	tonnes
%	
Estimate of the amount by which the toxic su	bstance contained in the product leaving the
Facility will be reduced as a result of impleme	
N/A	toppos
	tonnes
%	
Estimate of the amount by which the total <b>re</b> will be reduced as a result of implementing the	leases to air of the toxic substance at the facility
	tonnes
%	
Estimate of the amount by which the total <b>re</b> facility will be reduced as a result of impleme	leases to water of the toxic substance at the national the option:
N/A	tonnes
70 Estimate of the amount by which the total <b>re</b>	leases to land of the toyic substance at the
facility will be reduced as a result of impleme	nting the option:
N/A	toppos
%	tonnes
Estimate of the amount by which the dispose	als on-site (including tailing and waste rock) of
the toxic substance at the facility will be redu	ced as a result on implementing this option:
N/A	tonnes

%	
Estimate of the amount by which the <b>dispos</b> will be reduced as a result on implementing t	als off-site of the toxic substance at the facility
	0.17
N/A	tonnes
1.6	
%	
Estimate of the amount by which total <b>recycl</b>	ling off-site of the toxic substance at the facility
N/A	tonnes
%	
Timelines	
Anticipated timeline for achieving the estimat	ted reduction
Anticipated timelines for achieving the estimated	ated reduction of the <b>use</b> of the toxic substance:
N/A	years
Anticipated timelines for achieving the estimation	ated reduction of the creation of the toxic
substance:	
N/A	
	years
Spill or leak prevention	
Empty	
On-site reuse, recycling or recovery	
Етріу	
Improved inventory management or purchasing techniques	
Empty	
Cood energies practice or training	
Good operator practice of training	
Training related to toxics substance reduction	
Which activities will be undertaken to implement these	se reduction options?
Select an option: *	
Training related to toxics substance reduction	
	·
Describe the option: *	
Create a presentation on the environmental	
effects of acetonitrile and present this to lab	
chemists, so that they are aware of how to de with this material effectively. Note that the	eal
reduction amounts cannot be directly quantifi	ied
for this option.	
Estimates	
Estimated reduction in the toxic substance at	tributed to the implementation of this option:
Select All	
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:	·
N/A	0
	tonnes

0	
0	
% 	
reduced as a result of imple	which the creation of the toxic substance at the facility will be menting the option:
N/A	
	tonnes
%	
Estimate of the amount by v facility will be reduced as a	vhich the toxic substance <b>contained in the product</b> leaving the result of implementing the option:
N/A	
	tonnes
%	
Estimate of the amount by will be reduced as a result o	vhich the total <b>releases to air</b> of the toxic substance at the facility f implementing the option:
N/A	
	tonnes
%	
Estimate of the amount by vacility will be reduced as a	vhich the total <b>releases to water</b> of the toxic substance at the result of implementing the option:
N/A	
	tonnes
%	
Estimate of the amount by v facility will be reduced as a	vhich the total <b>releases to land</b> of the toxic substance at the result of implementing the option:
N/A	
	tonnes
%	
Estimate of the amount by when the toxic substance at the fa	which the <b>disposals on-site</b> (including tailing and waste rock) of acility will be reduced as a result on implementing this option:
N/A	
	tonnes
%	
vill be reduced as a result o	vhich the <b>disposals off-site</b> of the toxic substance at the facility n implementing this option:
N/A	
	tonnes
% Estimate of the amount by v	which total <b>recycling off-site</b> of the toxic substance at the facility
N/A	tonnes
	tomies
0/	
/0	
nelines	
Anticipated timeline for achi	eving the estimated reduction
Select All	inving the estimated reduction of the cost of the touts out stores
Anticipated timelines for ach	nieving the estimated reduction of the <b>use</b> of the toxic substance:
N/A	
	years
substance:	neving the estimated reduction of the creation of the toxic
N/A	
	years

Rationale for choosing these options for implementation:

The above options were chosen because they were assessed as being technically and economically feasible.

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

As a follow up to the reduction option outlined above, the facility will be looking at the feasibility of using the TPW3 autosampler in the facility's QC Lab in the future. Depending on the outcome of this feasibility evaluation, the reduction plan for acetonitrile may be updated accordingly.

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX): \*

TSRP0141

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

TSRP0141

Which version of the plan is reflected in this summary?\*

New Plan

Version: 2.6.1.3



50 Steinway Blvd.

# **Plan Certifications for Ethyl Alcohol**

## **Highest Ranking Employee**

As of *December 13, 2013*, I, *Tom Mitten*, certify that, I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the <u>*Toxics Reduction*</u> *Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

[Ethyl Alcohol CAS 64-17-5 version 0]

12-19-13

Tom Mitten VP, Product Supply - Etobicoke

Date

# **Licesenced Toxics Reduction Planner**

As of *December 13, 2013*, I, *Anthony Desilva* certify that I am familiar with the processes at *Apotex Inc. – 50 Steinway Blvd. site* that use or create the toxic substance 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 plan dated *December 13, 2013* and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Ethyl Alcohol CAS 64-17-5 version 0]

lecemb- 13.2013

Anthony Desilva Toxics Reduction Planner, Licence # TSRP0141

Date



50 Steinway Blvd.

# Plan Certifications for PM2.5 Particulate Matter

## **Highest Ranking Employee**

As of *December 13, 2013*, I, *Tom Mitten*, certify that, I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

[PM2.5 Particulate Matter version 0]

12-19-13

Tom Mitten VP, Product Supply - Etobicoke

Date

# **Licesenced Toxics Reduction Planner**

As of *December 13, 2013*, I, *Anthony Desilva* certify that I am familiar with the processes at *Apotex Inc. – 50 Steinway Blvd. site* that use or create the toxic substance 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 plan dated *December 13, 2013* and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

[PM2.5 Particulate Matter version 0]

Andy Da

December 13, 2013

Anthony Desilva Toxics Reduction Planner, Licence # TSRP0141

Date



50 Steinway Blvd.

# **Plan Certifications for Acetonitrile**

# **Highest Ranking Employee**

As of *December 13, 2013*, I, *Tom Mitten*, certify that, I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the <u>*Toxics Reduction*</u> *Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

[Acetonitrile CAS 75-05-8 version 0]

12 - 19 - 13

Tom Mitten VP, Product Supply - Etobicoke

Date

# **Licesenced Toxics Reduction Planner**

As of *December 13, 2013*, I, *Anthony Desilva* certify that I am familiar with the processes at *Apotex Inc. – 50 Steinway Blvd. site* that use or create the toxic substance 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 plan dated *December 13, 2013* and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

[Acetonitrile CAS 75-05-8 version 0]

In Aur

December 13.2013

Anthony Desilva Toxics Reduction Planner, Licence # TSRP0141

Date