Plan Summary Preview

Company Details

Company Legal Name

Halton Chemical Inc.

Company Address

840 Line, (Ontario)

Report Details

Facility Name

Halton Chemical Inc. PLANT/WAREHOUSE

Facility Address

840 Line, (Ontario)

Update Comments

Activities

Contacts

Facility Contacts

Public Contact: *

Jamie Dickens

Highest Ranking Employee

Jamie Dickens

Person responsible for Toxic Substance Reduction Plan preparation

Karen McLean

Organization Validation

Company and Parent Company Information

Company Details

Company Legal Name: * Halton Chemical Inc.

Company Trade Name: * Halton Chemical Inc.

Business Number: * 102253903

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

Facility Information

Facility Name: * Halton Chemical Inc. PLANT/WAREHOUSE

NAICS Code: * 325520

NPRI Id: * 0000007106

ON Reg 127/01 Id: 356987

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

Geographical Address

Latitude **

Longitude **

UTM Zone **

UTM Easting **

UTM Northing **

Contact Validation

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: *

9

Substances

100-41-4, Ethylbenzene

100-41-4, Ethylbenzene

Substances Section Data

Statement of Intent

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: **

Halton Chemical Inc. is committed to protecting the environment. Whenever feasible, we will reduce or eliminate the use of Ethyl Benzene, which is a component introduced at the supplier level in a number of products we use. Toxic substance reduction will be an ongoing effort at our facility.

No viable alternative product was found that would significantly decrease the amount of Ethyl Benzene, nor an option that was considered technically and financially feasible at this time. The rationale associated with this statement is due to the fact that Halton Chemical Inc. has already implemented measures to reduce the use of Ethyl Benzene in the system, where further changes are detrimental to the end desired product.

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: **

Halton Chemical Inc. does not create Ethyl Benzene in their process as it is a simple batch mixing process.

Objectives, Targets and Description

Objectives

Objectives in plan: *

Halton Chemical Inc. will to identify new reduction options or alternatives to products containing for Ethyl Benzene by determining the flow of the chemical through the process of the Facility.

Our plan will involve continually identifying the greatest potential for reduction at the raw materials level as this is the main source for the introduction of Ethyl Benzene into the Facility.

The Facility will use a combination of Product-focused and Production area approach. The individual raw materials will be analyzed by their MSDS and the Production area will be analyzed to minimize loss within each process.

Use Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target **years**

☒ or

Description of Target

Reasons for Use

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

As a formulation component

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

Ethyl Benzene is a unique aromatic hydrocarbon with high Kauri Butanol "KB" levels.

The Kauri-butanol value ("Kb value") is an international, standardized measure of solvent power for a hydrocarbon solvent, and is governed by an ASTM standardized test, ASTM D1133. The result of this test is a scaleless index, usually referred to as the "Kb value". A higher Kb value means the solvent is more aggressive or active in the ability to dissolve certain materials.

Specific attributes as well as being intrinsic to xylene make ethyl benzene difficult to substitute. In order to substitute we would have to completely change our current raw material base and our chemical formulations.

Reasons for Creation

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

This substance is not created at the facility

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

This substance is not created at this 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?: *

Yes, we are not 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 provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented: **

Halton Chemical Inc. has reviewed their processes and formulation and have categorized them according to the seven (7) MOE's predetermined reduction areas. The following are the major reasons why no option was implemented which in summary involves the lack of technical and economical feasibility and due to the fact that Halton Chemical Inc. has already implemented measures in 2010 to reduce the use of Ethyl Benzene.

Replacing G240 will reduce Ethyl Benzene consumption by 134.7566 kg which constitutes a 1.067% reduction, however with an $85.68 increase per drum.

In 2010 when these procedures were implemented, production losses were (and still are) tracked on batch cards produced for each product and each batch made. Losses were reduced immediately by 50 – 60%.

Halton Chemical Inc. previously investigated in-house recycling. High installation and maintenance costs were associated with the equipment. As well, multiple ongoing regulations and permits were required. One of the main components in many of our products is not recyclable, and has a known tendency to damage recycling equipment.

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 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): *

TRSP0237

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

TRSP0237

What version of the plan is this summary based on?: *

New Plan

108-88-3, Toluene

108-88-3, Toluene

Substances Section Data

Statement of Intent

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: **

Halton Chemical Inc. is committed to protecting the environment. Whenever feasible, we will eliminate, or reduce the use of Toluene. Toxic substance reduction will be an ongoing effort at our facility.

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: **

Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: *

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: **

Toluene is not created at this facility.

Objectives, Targets and Description

Objectives

Objectives in plan: *

Halton Chemical Inc. will to identify new reduction options or alternatives to products containing for Toluene by determining the flow of the chemical through the process of the Facility.

Our plan will involve continually identifying the greatest potential for reduction at the raw materials level as this is the main source for the introduction of Toluene into the Facility.

The Facility will use a combination of Product-focused and Production area approach. The individual raw materials will be analyzed by their MSDS and the Production area will be analyzed to minimize loss within each process.

Use Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Reasons for Use

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

As a formulation component

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

Toluene is a common solvent, able to dissolve paints, paint thinners, silicone sealants, many chemical reactants, rubber, printing ink, adhesives (glues), lacquers, leather tanners, and disinfectants. (Wikipedia)

Toluene is a unique aromatic hydrocarbon with high Kauri Butanol "KB" levels. (105 for Toluene)

The Kauri-butanol value ("Kb value") is an international, standardized measure of solvent power for a hydrocarbon solvent, and is governed by an ASTM standardized test, ASTM D1133. The result of this test is a scaleless index, usually referred to as the "Kb value". A higher Kb value means the solvent is more aggressive or active in the ability to dissolve certain materials. Mild solvents have low scores in the tens and twenties; powerful solvents like chlorinated solvents and "High Sol 10" or "High Sol 15" (naphthenic aromatic solvents) have ratings in that are in the low hundreds.

The high KB levels along with specific hydrogen bonding attributes make toluene ideally suited as industrial solvents for paints, coatings and adhesives. Most of the resins, rubbers and plastic based polymers used in our formulas are centered around the specific parameters found in toluene. In order to substitute away from these raw materials we would have to completely change our current raw material base to polymers that exhibit solubility in non-aromatic solvents.

Reasons for Creation

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

This substance is not created at the facility

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

This substance is not created at the facility.

Toxic Reduction Options for Implementation

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

Is there a statement that no option will be implemented?: *

Yes, we are not 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 provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented: **

Halton Chemical Inc. has reviewed the use of Toluene and summarize that there are no current technical and economical feasible solutions at this time that have not already been implemented in 2010. The following are some of the reasons:

Replacing G243 will reduce Toluene consumption by 14.8 kg and by 0.009%. Cost of replacement is unknown.

Replacing L72 will reduce Toluene consumption by 1.3855 kg and 0.00085% and would cost $107.27 more annually.

In 2010 when these procedures were implemented, production losses were (and still are) tracked on batch cards produced for each product and each batch made. Losses were reduced immediately by 50 – 60%.

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 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): *

TRSP0237

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

TRSP0237

What version of the plan is this summary based on?: *

New Plan

1330-20-7, Xylene (all isomers)

1330-20-7, Xylene (all isomers)

Substances Section Data

Statement of Intent

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: **

Halton Chemical Inc. is committed to protecting the environment. Whenever feasible, we will reduce or eliminate the use of Xylene, which is a component introduced at the supplier level in a number of products we use. Toxic substance reduction will be an ongoing effort at our facility.

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: **

Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: *

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: **

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: **

This facility does not create Xylenes.

Objectives, Targets and Description

Objectives

Objectives in plan: *

Halton Chemical Inc. will to identify new reduction options or alternatives to products containing for Xylene by determining the flow of the chemical through the process of the Facility.

Our plan will involve continually identifying the greatest potential for reduction at the raw materials level as this is the main source for the introduction of Xylene into the Facility.

The Facility will use a combination of Product-focused and Production area approach. The individual raw materials will be analyzed by their MSDS and the Production area will be analyzed to minimize loss within each process.

Use Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Reasons for Use

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

As a formulation component

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

Xylene is used as a solvent. In this application, the mixture of isomers is often referred to as xylenes or xylol. Solvent xylene often contains a small percentage of ethylbenzene. Like the individual isomers, the mixture is colorless, sweet-smelling, and highly flammable. Areas of application include printing, rubber, and leather industries. It is a common component of ink, rubber, adhesive,[9] and leather industries. In thinning paints and varnishes, it can be substituted for toluene where slower drying is desired, and thus is used by conservators of art objects in solubility testing.[10] Similarly it is a cleaning agent, e.g., for steel, silicon wafers, and integrated circuits. (Wikipedia)

Xylene is a unique aromatic hydrocarbon with high Kauri Butanol "KB" levels. (93 for Xylene)

The Kauri-butanol value ("Kb value") is an international, standardized measure of solvent power for a hydrocarbon solvent, and is governed by an ASTM standardized test, ASTM D1133. The result of this test is a scaleless index, usually referred to as the "Kb value". A higher Kb value means the solvent is more aggressive or active in the ability to dissolve certain materials. Mild solvents have low scores in the tens and twenties; powerful solvents like chlorinated solvents and "High Sol 10" or "High Sol 15" (naphthenic aromatic solvents) have ratings in that are in the low hundreds.

The high KB levels along with specific hydrogen bonding attributes make Xylene ideally suited as industrial solvents for paints, coatings and adhesives. Most of the resins, rubbers and plastic based polymers used in our formulas are centered around the specific parameters found in Xylene. In order to substitute away from these raw materials we would have to completely change our current raw material base to polymers that exhibit solubility in non-aromatic solvents.

Reasons for Creation

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

This substance is not created at the facility

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

This substance is not created at the facility.

Toxic Reduction Options for Implementation

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

Is there a statement that no option will be implemented?: *

Yes, we are not 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 provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented: **

Halton Chemical Inc. has reviewed the options in the seven (7) categorizes and have determined that at this time there are no technically and economically feasible solutions beyond what has been implemented in 2010.

For instance: Replacing G240 will reduce Xylene by 539.0265 kg and by 0.867%, but will cost $85.68 more per drum. The reduction in Xylenes would be minimal compared to the costs that would be incurred from the change.

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 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): *

TRSP0237

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

TRSP0237

What version of the plan is this summary based on?: *

New Plan

50-00-0, Formaldehyde

50-00-0, Formaldehyde

Substances Section Data

Statement of Intent

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: **

Halton Chemical Inc. is committed to protecting the environment. Whenever feasible, we will reduce or eliminate the use of Formaldehyde, which is a component introduced at the supplier level in a number of products we use. Toxic substance reduction will be an ongoing effort at our facility.

No viable alternative product was found that would significantly decrease the amount of Formaldehyde, nor an option that was considered technically and financially feasible at this time. The rationale associated with this statement is due to the fact that Halton Chemical Inc. has already implemented measures to reduce the use of Formaldehyde in the system, where further changes are detrimental to the end desired product.

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: **

Halton Chemical Inc. does not create Formaldehyde in their facility.

Objectives, Targets and Description

Objectives

Objectives in plan: *

Halton Chemical Inc. will to identify new reduction options or alternatives to products containing for Formaldehyde by determining the flow of the chemical through the process of the Facility.

Our plan will involve continually identifying the greatest potential for reduction at the raw materials level as this is the main source for the introduction of Formaldehyde into the Facility.

The Facility will use a combination of Product-focused and Production area approach. The individual raw materials will be analyzed by their MSDS and the Production area will be analyzed to minimize loss within each process.

Use Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of targets

Creation Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Reasons for Use

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

As a formulation component

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

Formaldehyde runs parallel (cannot be separately distinguished by other chemicals as it has been added by the suppliers) with the other chemicals within the facility and is a small component of the raw materials used. Halton Chemical Inc. intends to reduce their use of Formaldehyde by attempting to substitute the raw material to be potentially Formaldehyde-free.

Reasons for Creation

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

This substance is not created at the facility

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

This substance is not created at the facility.

Toxic Reduction Options for Implementation

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

Is there a statement that no option will be implemented?: *

Yes, we are not 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 provide an explanation below why your facility is not implementing an option. Explanation of the reasons why no option will be implemented: **

While Halton Chemical Inc. is constantly pursuing alternatives, the current market does not provide technically and economically feasible substitutions at this time.

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 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): *

TSRP0237

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

TSRP0237

What version of the plan is this summary based on?: *

New Plan

67-56-1, Methanol

67-56-1, Methanol

Substances Section Data

Statement of Intent

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: **

Halton Chemical Inc. is committed to protecting the environment. Whenever feasible, we will eliminate, or reduce the use of Methanol. Toxic substance reduction will be an ongoing effort at our facility.

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: **

Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: *

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: **

The facility does not create methanol.

Objectives, Targets and Description

Objectives

Objectives in plan: *

Halton Chemical Inc. will to identify new reduction options or alternatives to products containing for Methanol by determining the flow of the chemical through the process of the Facility.

Our plan will involve continually identifying the greatest potential for reduction at the raw materials level as this is the main source for the introduction of Methanol into the Facility.

The Facility will use a combination of Product-focused and Production area approach. The individual raw materials will be analyzed by their MSDS and the Production area will be analyzed to minimize loss within each process.

Use Targets

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

No quantity target		Quantity	Unit
☐	or	21203	kg

What is the targeted timeframe for this reduction? *

No timeline target		years
☐	or	1.5

Description of targets

The reduction will be performed over three (3) phases which will start in Q1 or Q2 of 2013 and completed at the latest by Q4 of 2014.

Creation Targets

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

No quantity target		Quantity	Unit
☒	or		

What is the targeted timeframe for this reduction? *

No timeline target		years
☒	or	

Description of Target

Reasons for Use

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

As a formulation component

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

Methanol is a common solvent that is used for coatings, strippers and reducers. It is also used as a denaturing product for ethanol.

Reasons for Creation

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

This substance is not created at the facility

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

This substance is not created at the facility.

Toxic Reduction Options for Implementation

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

Is there a statement that no option will be implemented?: *

No, we are implementing

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option.
Explanation of the reasons why no option will be implemented: **

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: *

Substituting Methanol/Alcohol DAG 2A Anhydrous with Denatured Ethanol 2I
As a direct addition product, methanol has a number of benefits.
·Low cost
·Fast dry
·High solubility
·Broad compatibility
·Pot life extension

In most cases, we cannot simply eliminate a primary alcohol from the formulation. Our only option is to replace the usage percent with another primary alcohol. The obvious choice is ethanol, which is not listed as a toxin or potential toxin on the Toxic Reduction Act. This substitution presents a number of problems from both the functional and economic sides.

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:		
☐	21.20	87.2
Estimate of the amount by which the creation of the toxic substance at the facility will be reduced as a result of implementing the option:		
☒		
Estimate of the amount by which the toxic substance contained in the product leaving the facility will be reduced as a result of implementing the option:		
☐	21.20	87.2
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:

☒

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:

☐ 1.5

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

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): *

TRSP0237

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

TRSP0237

What version of the plan is this summary based on?: *

New Plan

As of December 20, 2012

#1 I, Jamie Dickens certify that I am familiar with the processes at Halton Chemical Inc. that use or create the toxic substance referred to below,

#2 that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the plan dated December 20, 2012.

#3 and that the plan complies with that act and Ontario Regulation 455/09 (General) made under the act.

Ethyl Benzene
Toluene
Xylene
Methanol
Formaldehyde

Jamie Dickens
Signature

DEC 20 2012
Date

As of December 20, 2012

#1 I, Winston Lew certify that I am familiar with the processes at Halton Chemical Inc. that use or create the toxic substance referred to below,

#2 that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the plan dated December 20, 2012.

#3 and that the plan complies with that act and Ontario Regulation 455/09 (General) made under the act.

Ethyl Benzene
Toluene
Xylene
Methanol
Formaldehyde

Signature TRSP0237

DEC 20 2012
Date