

**Toxics Substance Reduction Plan Summary
For
FORMALDEHYDE (CAS# 50-00-0)**



Durez Canada
100 Dunlop Street
Fort Erie, Ontario
L2A 4H9

December 20, 2012

INTRODUCTION

Durez Canada Company Ltd. is part of the SUMITOMO BAKELITE GROUP, the world's largest manufacturer of thermosetting phenolic resins and moulding compounds covering a wide range of applications. Durez phenolic resins can be found in everything from coatings for food can linings to insulating materials on the space shuttle. The moulding compound line offers an extensive range of high quality, cost effective products for many applications in the automotive, electrical and appliance industries.

Durez Canada produces both the resin and moulding compound. The resin is produced by reacting phenol and formaldehyde. The resin is used a raw material for the molding compound operation. There are four chemicals handled at Durez Canada that have been identified as requiring a Toxic Substance Reduction Plan. These chemicals are formaldehyde, methanol, phenol, and sulphuric acid. This summary is specific for formaldehyde.

The plan covers the reason we use the substance, our plans to reduce, if any, and the verification of the plan by both the top ranked official at the plant and a licensed Toxic Substance Planner.

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Name	Formaldehyde	
CAS #	50-00-0	
Facility Information		
Company Name	Durez Canada Company, Ltd.	
Facility Name	Durez Canada	
Facility Address	100 Dunlop Street, Fort Erie, ON L2A 4H9	
UTM Co-ordinates	668906.50 m E 4754524.66 m N	
NPRI ID	656	
MOE ID	ON1838700	
Number of Full-Time Employees in 2011	70	
2-Digit NAICS Code	32	
4-Digit NAICS Code	3252	
6-Digit NAICS Code	325210	
Parent Company Information		
Company Name	Sumitomo Bakelite North America	
Company Address	46820 Magellan Dr., Suite C, Novi, MI USA 48377	
Percent Ownership by Parent Company	SBNA owns 100 % of Durez Canada.	
Facility Contact Information		
Public Contact	Robert Hunt Plant Manager Phone: 905-346-8615 Fax: 905-346-8681	E-mail: rhunt@sbna-inc.com Address: P.O. Box 100, Fort Erie, ON L2A 5M6

2.0 STATEMENT OF INTENT (FOR FORMALDEHYDE)

Durez Canada Company, Ltd. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will look to eliminate or reduce the amount of releases of formaldehyde in compliance with all Federal and Provincial regulations. It is noted that the use of formaldehyde is an integral part of the products that we manufacture. We will continue to use this substance in strict accordance with all applicable environmental regulations.

With reference to the Ontario Toxics Reduction Act, the reduction objectives are outlined in Section 4 of this Plan Summary for the reportable substance formaldehyde at Durez Canada.

3.0 SUBSTANCE REQUIRING PLAN

Based on 2011 Toxics Reduction Act accounting information, formaldehyde is identified as a substance that requires a Toxic Substance plan. Formaldehyde is used as a main raw material in the production of phenolic resins. Formaldehyde is reacted with phenol to create phenolic resin. The majority of the formaldehyde is consumed in reaction although there are emissions and waste generated as the substance is used in our process buildings.

Formaldehyde amounts were determined through the use of actual emissions data, MSDS noted concentrations and engineering calculations. Emissions from diesel and natural gas consumption were obtained through emission formulas.

4.0 OBJECTIVES OF THE PLAN AND TARGETS

Durez Canada Company, Ltd. prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. We will strive to optimize the use of formaldehyde at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

5.0 OPTIONS TO BE IMPLEMENTED

In the 2013 Durez Canada will implement the identified toxic substance reduction of improved storage agitation that will, if successful, reduce the use of formaldehyde in production by 0.01 kg output as noted. The objective of this reduction plan will be to reduce the risk of paraform through improved agitation. This project will include the selection of a best agitation method, creation and approval of a request for capital funds, and then installation of the agitation method.

6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 20, 2012, prepared for the substances listed in Section 1.0 of this Summary.

7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 20, I, Robert Hunt, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012

A handwritten signature in black ink that reads "Robert Hunt". The signature is written in a cursive style with a long horizontal stroke at the end of the name.

Robert Hunt
Plant Manager
Durez Canada

8.0 CERTIFICATION BY LICENSED PLANNER

As of December 20, I, Phil Girard, TSRP #0019, certify that I am familiar with the processes at Durez Canada that use the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012



Phil Girard, TSRP #0019
Pinchin Environmental Ltd.

**Toxics Substance Reduction Plan Summary
For
METHANOL (CAS# 67-56-1)**



Durez Canada
100 Dunlop Street
Fort Erie, Ontario
L2A 4H9

December 20, 2012

INTRODUCTION

Durez Canada Company Ltd. is part of the SUMITOMO BAKELITE GROUP, the world's largest manufacturer of thermosetting phenolic resins and moulding compounds covering a wide range of applications. Durez phenolic resins can be found in everything from coatings for food can linings to insulating materials on the space shuttle. The moulding compound line offers an extensive range of high quality, cost effective products for many applications in the automotive, electrical and appliance industries.

Durez Canada produces both the resin and moulding compound. The resin is produced by reacting phenol and formaldehyde. The resin is used a raw material for the molding compound operation. There are four identified chemicals handled at Durez Canada that have been identified as requiring a Toxic Substance Reduction Plan. These chemicals are formaldehyde, methanol, phenol, and sulphuric acid. This summary is specific for methanol.

The plan covers the reason we use the substance, our plans to reduce, if any, and the verification of the plan by both the top ranked official at the plant and a licensed Toxic Substance Planner.

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Name	Methanol	
CAS #	67-56-1	
Facility Information		
Company Name	Durez Canada Company, Ltd.	
Facility Name	Durez Canada	
Facility Address	100 Dunlop Street, Fort Erie, ON L2A 4H9	
UTM Co-ordinates	668906.50 m E 4754524.66 m N	
NPRI ID	656	
MOE ID	ON1838700	
Number of Full-Time Employees in 2011	70	
2-Digit NAICS Code	32	
4-Digit NAICS Code	3252	
6-Digit NAICS Code	325210	
Parent Company Information		
Company Name	Sumitomo Bakelite North America	
Company Address	46820 Magellan Dr., Suite C, Novi, MI USA 48377	
Percent Ownership by Parent Company	SBNA owns 100 % of Durez Canada.	
Facility Contact Information		
Public Contact	Robert Hunt Plant Manager Phone: 905-346-8615 Fax: 905-346-8681	E-mail: rhunt@sbna-inc.com Address: P.O. Box 100, Fort Erie, ON L2A 5M6

2.0 STATEMENT OF INTENT (FOR METHANOL)

Durez Canada Company, Ltd. is committed to playing a leadership role in protecting the environment. The use of methanol is an integral part of the products that we manufacture, and it is not technically or economically feasible to reduce. We will continue to use these substances in strict accordance with all applicable environmental regulations.

With reference to the Ontario Toxics Reduction Act, the reduction objectives are outlined in Section 4 of this Plan Summary for the reportable substance (Methanol) at Durez Canada.

3.0 SUBSTANCE REQUIRING PLAN

Based on 2011 Toxics Reduction Act accounting information, methanol is identified as a substance that requires a plan. Methanol is used as a stabilizer in the formalin solution. Methanol is not an identified, nor a necessary chemical for in the phenolic resin reaction. We have not made installed or use any equipment specifically to handle or process methanol. Methanol is consumed during the reaction but also is emitted in air. Methanol is contained as a substance in the water waste (distillate) at less than 1%.

4.0 OBJECTIVES OF THE PLAN & ANY TARGETS

Durez Company prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. At the current time no technically feasible options were identified that if implemented could reduce the use of methanol. Durez will continue to work with suppliers and customers and implement methanol reduction initiatives as deemed appropriate.

5.0 OPTIONS TO BE IMPLEMENTED

At this point in time, until a methanol substitute is identified, no options were identified that would reduce our use of methanol. Methanol is a necessary component of the process.

6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 20, 2012, prepared for the substances listed in Section 1.0 of this Summary.

7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 20, I, Robert Hunt, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012

A handwritten signature in black ink that reads "Robert Hunt". The signature is written in a cursive style with a long horizontal stroke at the end.

Robert Hunt
Plant Manager
Durez Canada

8.0 CERTIFICATION BY LICENSED PLANNER

As of December 20, I, Phil Girard, TSRP #0019, certify that I am familiar with the processes at Durez Canada that use the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012



Phil Girard, TSRP #0019
Pinchin Environmental Ltd.

**Toxics Substance Reduction Plan Summary
For
PHENOL (CAS# 108-95-2)**



Durez Canada
100 Dunlop Street
Fort Erie, Ontario
L2A 4H9

December 20, 2012

INTRODUCTION

Durez Canada Company Ltd. is part of the SUMITOMO BAKELITE GROUP, the world's largest manufacturer of thermosetting phenolic resins and moulding compounds covering a wide range of applications. Durez phenolic resins can be found in everything from coatings for food can linings to insulating materials on the space shuttle. The moulding compound line offers an extensive range of high quality, cost effective products for many applications in the automotive, electrical and appliance industries.

Durez Canada produces both the resin and moulding compound. The resin is produced by reacting phenol and formaldehyde. The resin is used a raw material for the molding compound operation. There are four identified chemicals handled at Durez Canada that have been identified as requiring a Toxic Substance Reduction Plan. These chemicals are formaldehyde, methanol, phenol, and sulphuric acid. This summary is specific for phenol.

The plan covers the reason we use the substance, our plans to reduce, if any, and the verification of the plan by both the top ranked official at the plant and a licensed Toxic Substance Planner.

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Name	Phenol	
CAS #	108-95-2	
Facility Information		
Company Name	Durez Canada Company, Ltd.	
Facility Name	Durez Canada	
Facility Address	100 Dunlop Street, Fort Erie, ON L2A 4H9	
UTM Co-ordinates	668906.50 m E 4754524.66 m N	
NPRI ID	656	
MOE ID	ON1838700	
Number of Full-Time Employees in 2011	70	
2-Digit NAICS Code	32	
4-Digit NAICS Code	3252	
6-Digit NAICS Code	325210	
Parent Company Information		
Company Name	Sumitomo Bakelite North America	
Company Address	46820 Magellan Dr., Suite C, Novi, MI USA 48377	
Percent Ownership by Parent Company	SBNA owns 100 % of Durez Canada.	
Facility Contact Information		
Public Contact	Robert Hunt Plant Manager Phone: 905-346-8615 Fax: 905-346-8681	E-mail: rhunt@sbna-inc.com Address: P.O. Box 100, Fort Erie, ON L2A 5M6

2.0 STATEMENT OF INTENT (FOR PHENOL)

Durez Canada Company, Ltd. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use and releases of phenol in compliance with all Federal and Provincial regulations.

With reference to the Ontario Toxics Reduction Act, the reduction objectives are outlined in Section 4 of this Plan Summary for the reportable substance (Phenol) at Durez Canada.

3.0 SUBSTANCE REQUIRING PLAN

Based on 2011 Toxics Reduction Act accounting information, phenol is identified as a substance that requires a plan. Phenol is used as a main raw material in the production of phenolic resins. Phenol is reacted with formaldehyde is reacted to create phenolic resin. Emissions in the reaction area are generated as volume is displaced as liquid moves from location to location or given off during reaction or as the resin is flaked. These vapours are collected in a common header that is directed to a scrubber where salts are formed. Wastes may also be produced and sent to an appropriate disposal location.

The resin for internal use will go to one of three buildings. The use of phenol in each of these buildings is simply as being part of the phenolic resin. The resin is used as a binder in the moulding compounds and as a main raw material in the pulverizing building. Emissions are given off only in the moulding compound area as the material is heated as the homogenous moulding compound product is produced. Phenol amounts were determined through the use of actual emissions data, MSDS noted concentrations and engineering calculations.

4.0 OBJECTIVES OF THE PLAN & ANY TARGETS

Durez Canada prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. We will strive to reduce as well as optimize the use of phenol at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

5.0 OPTIONS TO BE IMPLEMENTED

In 2013 and beyond, Durez Canada will implement the identified toxic substance reduction measurement that will, if successful, reduce the use of not only phenol per unit of production output but total raw material usage per production output. The

objective of this reduction plan will be to reduce the phenol usage through a chiller system in our distillate area (1% reduction), installation of a raw material sifter in our B4 process (0.03% reduction), improved housekeeping (0.02% reduction), and the twinning of the vacuum system in one of the moulding compound buildings (0.01% reduction). Each project will include the selection of a design and equipment, creation and approval of a request for capital funds, and then installation chosen equipment.

6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 20, 2012, prepared for the substances listed in Section 1.0 of this Summary.

7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 20, I, Robert Hunt, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde	Plan Prepared December 20, 2012
Methanol	Plan Prepared December 20, 2012
Phenol	Plan Prepared December 20, 2012
Sulphuric Acid	Plan Prepared December 20, 2012



Robert Hunt
Plant Manager
Durez Canada

8.0 CERTIFICATION BY LICENSED PLANNER

As of December 20, I, Phil Girard, TSRP #0019, certify that I am familiar with the processes at Durez Canada that use the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012



Phil Girard, TSRP #0019
Pinchin Environmental Ltd.

**Toxics Substance Reduction Plan Summary
For
PHENOL (CAS# 108-95-2)**



Durez Canada
100 Dunlop Street
Fort Erie, Ontario
L2A 4H9

December 20, 2012

INTRODUCTION

Durez Canada Company Ltd. is part of the SUMITOMO BAKELITE GROUP, the world's largest manufacturer of thermosetting phenolic resins and moulding compounds covering a wide range of applications. Durez phenolic resins can be found in everything from coatings for food can linings to insulating materials on the space shuttle. The moulding compound line offers an extensive range of high quality, cost effective products for many applications in the automotive, electrical and appliance industries.

Durez Canada produces both the resin and moulding compound. The resin is produced by reacting phenol and formaldehyde. The resin is used a raw material for the molding compound operation. There are four identified chemicals handled at Durez Canada that have been identified as requiring a Toxic Substance Reduction Plan. These chemicals are formaldehyde, methanol, phenol, and sulphuric acid. This summary is specific for phenol.

The plan covers the reason we use the substance, our plans to reduce, if any, and the verification of the plan by both the top ranked official at the plant and a licensed Toxic Substance Planner.

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Name	Phenol	
CAS #	108-95-2	
Facility Information		
Company Name	Durez Canada Company, Ltd.	
Facility Name	Durez Canada	
Facility Address	100 Dunlop Street, Fort Erie, ON L2A 4H9	
UTM Co-ordinates	668906.50 m E 4754524.66 m N	
NPRI ID	656	
MOE ID	ON1838700	
Number of Full-Time Employees in 2011	70	
2-Digit NAICS Code	32	
4-Digit NAICS Code	3252	
6-Digit NAICS Code	325210	
Parent Company Information		
Company Name	Sumitomo Bakelite North America	
Company Address	46820 Magellan Dr., Suite C, Novi, MI USA 48377	
Percent Ownership by Parent Company	SBNA owns 100 % of Durez Canada.	
Facility Contact Information		
Public Contact	Robert Hunt Plant Manager Phone: 905-346-8615 Fax: 905-346-8681	E-mail: rhunt@sbna-inc.com Address: P.O. Box 100, Fort Erie, ON L2A 5M6

2.0 STATEMENT OF INTENT (FOR PHENOL)

Durez Canada Company, Ltd. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use and releases of phenol in compliance with all Federal and Provincial regulations.

With reference to the Ontario Toxics Reduction Act, the reduction objectives are outlined in Section 4 of this Plan Summary for the reportable substance (Phenol) at Durez Canada.

3.0 SUBSTANCE REQUIRING PLAN

Based on 2011 Toxics Reduction Act accounting information, phenol is identified as a substance that requires a plan. Phenol is used as a main raw material in the production of phenolic resins. Phenol is reacted with formaldehyde to create phenolic resin. Emissions in the reaction area are generated as volume is displaced as liquid moves from location to location or given off during reaction or as the resin is flaked. These vapours are collected in a common header that is directed to a scrubber where salts are formed. Wastes may also be produced and sent to an appropriate disposal location.

The resin for internal use will go to one of three buildings. The use of phenol in each of these buildings is simply as being part of the phenolic resin. The resin is used as a binder in the moulding compounds and as a main raw material in the pulverizing building. Emissions are given off only in the moulding compound area as the material is heated as the homogenous moulding compound product is produced. Phenol amounts were determined through the use of actual emissions data, MSDS noted concentrations and engineering calculations.

4.0 OBJECTIVES OF THE PLAN & ANY TARGETS

Durez Canada prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. We will strive to reduce as well as optimize the use of phenol at the facility. Further, this plan will determine the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

5.0 OPTIONS TO BE IMPLEMENTED

In 2013 and beyond, Durez Canada will implement the identified toxic substance reduction measurement that will, if successful, reduce the use of not only phenol per unit of production output but total raw material usage per production output. The

objective of this reduction plan will be to reduce the phenol usage through a chiller system in our distillate area (1% reduction), installation of a raw material sifter in our B4 process (0.03% reduction), improved housekeeping (0.02% reduction), and the twinning of the vacuum system in one of the moulding compound buildings (0.01% reduction). Each project will include the selection of a design and equipment, creation and approval of a request for capital funds, and then installation chosen equipment.

6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated December 20, 2012, prepared for the substances listed in Section 1.0 of this Summary.

7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of December 20, I, Robert Hunt, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde	Plan Prepared December 20, 2012
Methanol	Plan Prepared December 20, 2012
Phenol	Plan Prepared December 20, 2012
Sulphuric Acid	Plan Prepared December 20, 2012



Robert Hunt
Plant Manager
Durez Canada

8.0 CERTIFICATION BY LICENSED PLANNER

As of December 20, I, Phil Girard, TSRP #0019, certify that I am familiar with the processes at Durez Canada that use the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4 (1) of the Toxic Reduction Act, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act.

Formaldehyde Plan Prepared December 20, 2012

Methanol Plan Prepared December 20, 2012

Phenol Plan Prepared December 20, 2012

Sulphuric Acid Plan Prepared December 20, 2012



Phil Girard, TSRP #0019
Pinchin Environmental Ltd.



**Toxic Substance Reduction Plans Summary
For
Ammonia (CAS# 107-02-8)
Ethyl alcohol (CAS# 64-17-5)
Particulate Matter 2.5 (CAS# NA – M10)
Particulate Matter 10 (CAS# NA – M09)**

**Durez Canada
100 Dunlop Street
Fort Erie, Ontario
L2A 4H9**

November 25, 2013
Pinchin File: 72040.008

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1.0 BASIC FACILITY INFORMATION

Substance Information		
Substance Name	CAS #	
Ammonia	107-02-8	
Ethyl alcohol	64-17-5	
Particulate Matter 2.5 (PM2.5)	NA-M10	
Particulate Matter 10 (PM10)	NA-M09	
Substances for which other plans have been prepared	CAS #	
Formaldehyde	50-00-0	
Methanol	67-56-1	
Phenol	108-95-2	
Sulphuric acid	7664-93-9	
Facility Information		
Company Name	Durez Canada	
Facility Address	100 Dunlop Street, Fort Erie, Ontario, L2A 4H9	
Site Coordinates (main entrance of site)	668906.5 m E, 4754524.66 mN, zone 17	
NPRI ID	656	
MOE ID	n/a	
Number of Full-Time Employees in 2012	67	
2-Digit NAICS Code	31-33 - Manufacturing	
4-Digit NAICS Code	3252 – Resin, Synthetic Rubber, Artificial & Synthetic Fibers & Filament	
6-Digit NAICS Code	325210 – Resins and Synthetic Rubber Manufacturing	
Facility Contact Information		
Public Contact	Mr. Robert Hunt Plant Manager Phone #: 905-346-8615 Fax #: 905-346-8681	rhunt@sbna-inc.com Address: same as facility address

2.0 STATEMENT OF INTENT

2.1 Ammonia

At the current time no technically or economically feasible options were identified that if implemented could reduce the amount of ammonia emitted/created by Durez Canada.

2.2 Ethyl alcohol

At the current time no technically or economically feasible options were identified that if implemented could reduce the amount of ethyl alcohol emitted/created by Durez Canada.

2.3 Particulate Matter (PM2.5 & PM10)

At the current time no technically or economically feasible options were identified that if implemented could reduce the amount of particulate matter emitted by Durez Canada.

3.0 OBJECTIVES OF THE PLAN & ANY TARGETS

3.1 Ammonia

The purpose of the plan is to determine the technical and economic feasibility of any identified option to reduce ammonia creation, and therefore ammonia emissions at the Durez Canada plant.

3.2 Ethyl alcohol

The purpose of the plan is to determine the technical and economic feasibility of any identified option to reduce ethyl alcohol creation, and therefore ethyl alcohol emissions at the Durez Canada plant.

3.3 Particulate Matter (PM2.5 & PM10)

The purpose of the plan is to determine the technical and economic feasibility of any identified option to reduce particulate matter emissions at the Durez Canada plant.

4.0 DESCRIPTION OF WHY THE TOXIC SUBSTANCE IS USED OR CREATED

4.1 Ammonia

Ammonia is created as a by-product due to the use of hexamethylenetetramine (hexa) in the moulding compound process. Hexa continues the cross-linking of the phenolic resin and thus allows the resin to “finish” cross-linking and thus provide the thermo-set properties for materials made with phenolic resins and compounds. This cross linking takes place during the kneading portion of our moulding compound operation; i.e., whenever the material is heated. There are no ammonia emissions if the material is handled at ambient temperatures.

4.2 Ethyl Alcohol

Ethyl alcohol is created as a by-product, due to the use of silane in the production of specific resins made at Durez Canada and premix containing silane used in the moulding compound process. Silane is used to bind the organic and inorganic materials used in our process.

4.3 Particulate Matter (PM2.5 & PM10)

The majority of particulate matter at Durez Canada originates from our many airveying systems. Airveyors are used in the production process to convey materials from one location to another. The other sources of particulate matter at the plant are cooling towers and combustion of propane, diesel, and natural gas. Each of these sources is critical for the operation of the plant. The emission rate from these secondary sources is derived from calculated formulations. For this reason no plans for reduction are given for these sources.

5.0 OPTIONS TO BE IMPLEMENTED (OR STATEMENT THAT NONE ARE TO BE IMPLEMENTED)

No options that are technically feasible were identified, therefore no options will be implemented.

6.0 ESTIMATED REDUCTIONS UNDER THE OPTIONS SELECTED (IF ANY)

Not applicable.

7.0 TIMELINES FOR ACHIEVING ESTIMATED REDUCTION (IF ANY)

Not applicable.

8.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN

This Plan Summary accurately reflects the Toxic Substance Reduction Plans dated November 25, 2013 prepared for the substances listed in Section 1.0 of this Summary.

9.0 COPY OF CERTIFICATIONS

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of November 25, 2013, I, Robert Hunt certify that I have read the toxic substance reduction plan for the toxic substances 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 the Ontario Regulation 455/09 (General) made under that Act.

Ammonia, Plan prepared November 25, 2013

Ethyl alcohol, Plan prepared November 25, 2013

Particulate Matter 2.5, Plan prepared November 25, 2013

Particulate Matter 10, Plan prepared November 25, 2013



Robert Hunt
Plant Manager
Durez Canada

CERTIFICATION BY LICENSED PLANNER

As of November 25, 2013, I, Connie Lum certify that I am familiar with the processes at Durez Canada that use the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and the Ontario Regulation 455/09 (General) made under that Act.

Ammonia, Plan prepared November 25, 2013

Ethyl alcohol, Plan prepared November 25, 2013

Particulate Matter 2.5, Plan prepared November 25, 2013

Particulate Matter 10, Plan prepared November 25, 2013



Connie Lum, B.Sc., EP, TSRP#0089
Senior Project Manager
Pinchin Environmental Ltd.
clum@pinchin.com