

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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TABLE OF CONTENTS

1.0	BASI	C FACILITY INFORMATION1	
2.0	STAT 2.1 2.2 2.3	TEMENT OF INTENT Ammonia Ethyl alcohol Particulate Matter (PM2.5 & PM10)	
3.0	OBJE 3.1 3.2 3.3	ECTIVES OF THE PLAN & ANY TARGETS 2 Ammonia 2 Ethyl alcohol 2 Particulate Matter (PM2.5 & PM10) 2	
4.0	DESC 4.1 4.2 4.3	CRIPTION OF WHY THE TOXIC SUBSTANCE IS USED OR CREATED	
5.0 IMPLI	OPTIONS TO BE IMPLEMENTED (OR STATEMENT THAT NONE ARE TO BE LEMENTED)		
6.0	ESTI	MATED REDUCTIONS UNDER THE OPTIONS SELECTED (IF ANY)	
7.0	TIME	ELINES FOR ACHIEVING ESTIMATED REDUCTION (IF ANY)	
8.0		TENTS OF THIS PLAN SUMMARY REFLECTS PLAN	
9.0		Y OF CERTIFICATIONS	

1.0 BASIC FACILITY INFORMATION

Substance Information			
Sı	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	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 Informat	tion		
Public Contact	Mr. Robert Hunt	rhunt@sbna-inc.com	
	Plant Manager	Address: same as facility address	
	Phone #: 905-346-8615		
	Fax #: 905-346-8681		

November 25, 2013 Pinchin File: 72040.008

1

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.

November 25, 2013

Pinchin File: 72040.008

November 25, 2013 Pinchin File: 72040.008

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

best Hunt

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

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