

**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.