

**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.

---

## TABLE OF CONTENTS

INTRODUCTION.....	I
1.0 BASIC FACILITY INFORMATION.....	1
2.0 STATEMENT OF INTENT (FOR FORMALDEHYDE) .....	2
3.0 SUBSTANCE REQUIRING PLAN.....	2
4.0 OBJECTIVES OF THE PLAN AND TARGETS .....	2
5.0 OPTIONS TO BE IMPLEMENTED.....	2
6.0 CONTENTS OF THIS PLAN SUMMARY REFLECTS PLAN.....	3
7.0 CERTIFICATION BY HIGHEST RANKING EMPLOYEE .....	4
8.0 CERTIFICATION BY LICENSED PLANNER.....	5

## 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.