

Toxic Reduction Plan

BASIC FACILITY INFORMATION

Substance Name & CAS #	Methanol CAS# 67-56-1	
FACILITY IDENTIFICATION AND SITE ADDRESS		
Company Name	Resolute FP Canada Inc.	
Facility Name	Thunder Bay Sawmill	
Facility Address	156 Darrel Avenue, Thunder Bay	
Coordinates (UTM/NAD 83)	UTM ZONE 16 NORTH, Easting-334424, Northing- 5358452	
Number of Employees	180	
NPRI ID	0000011090	
Ontario MOE ID	10492	
PARENT COMPANY INFORMATION		
Name & Address	Resolute FP Canada Inc., 111 Duke St., suite 5000 Montreal, Quebec H3C 2M1	
Percent Ownership	100%	
Business Number	144272010	
PRIMARY NAICS CODES		
2 Digit NAICS Code	32	
4 Digit NAICS Code	3211	
6 Digit NAICS Code	321111	
COMPANY CONTACT INFORMATION		
Facility Public Contact	<i>Name/Position/Tel # Patrick Roy/ Yard & Environment Supervisor/ 807-624-2444</i>	
Facility Technical Contact	<i>Name/Position/Tel # Duane Wallace/Engineer 807-624-2411</i>	
Person Who Prepared Plan	<i>Name/Position/Tel # Patrick Roy/Yard & Environment Supervisor/ 807-624-2444</i>	
Parent Company Contact	<i>Name/Position/Address/Tel # Pascale Lagacé/ Director Environment and Climate Change/514-394-3675</i>	
Planner Responsible for Making Recommendations	<i>Name/Company/Address/Tel Pascale Lagacé/ Director Environment and Climate Change/514-394-3675</i>	<i>Planner Licence # TSRP0073</i>
Planner Responsible for Certification	<i>Name/Company/Address/Tel #Pascale Lagacé/ Director Environment and Climate Change/514-394-3675</i>	<i>Planner Licence # TSRP0073</i>

METHANOL PLAN OVERVIEW

Statement of Intent and Objective

Methanol is a substance that is contained naturally in the wood. This substance is released during the drying process of lumber. Resolute Forest Products Thunder Bay Sawmill does not intend to reduce the creation of methanol at this time due to no feasible options identified. We are committed to explore new technology to reduce the creation of this substance as it becomes available.

Description of Process That Creates Toxic Substance

Green lumber is loaded on kiln carts and placed inside the kilns. Wood shavings are combusted in two heater units to heat thermal oil and circulate through heat coils to dry lumber (180-205 F). As lumber dries, the methanol is released from the wood into the atmosphere. Some vapors leak through the structure cracks but mostly they are released when the kilns reach operating temperatures and roof vents open. Also, a small amount of methanol is manufactured in the wood fired burner and released to the air. For more information refer to the toxic substance accounting document.

Toxic Substance Accounting Information

Toxic Substance Accounting information, including records of methods used to track and quantify methanol released can be found in the toxic substance accounting document.

Costing Data

There are no costs associated with the use, release, disposal, transfer and contained in product for methanol because the substance is naturally present in the wood, and that we incur no costs associated with the release or with its presence in our product. Moreover, we do not use or dispose of this substance.

Toxic Substance Use and Creation Reduction Options

Reduction Category	Description and Rational of Reduction	Option
Materials and Feedstock Substitution	All wood species contain methanol, no material substitution feasible	No Options Identified
Product Design or Reformulation	Wood drying is the main source of methanol emissions. The customers require dry wood for their use.	No Options Identified
Equipment or Process Modifications	Heat treatment regulations from Canadian Food Inspection Agency require a minimal drying temperature of 140 degree F. Therefore process modification to temperature is not an option.	No Options Identified
Spill and Leak Prevention	Methanol is contained in the wood so there are no spills of methanol on site.	No Options Identified
Onsite Re-use or Recycling	Methanol is released during drying process of lumber and there are no methods identified to capture the substance.	No Options Identified
Improved Inventory Management or Purchasing Techniques	Methanol is contained in the wood and we do not purchase or store this substance on site.	No Options Identified
Training and Improved Operating Practices	<p>The following procedures are in place to minimize VOC emissions including methanol;</p> <ul style="list-style-type: none"> 1-the use of air flow baffling; 2-the use of stickering; 3-optimization of in kiln wood moisture; 4-the use and optimization of kiln operating control systems; 5-the use and optimization of humidity tracking; 6-the maintenance of air circulation and heat source components. 	No other Options Identified

PLAN CERTIFICATION

PLANNER RECOMMENDATIONS AND RATIONALE

PLANNERS RECOMMENDATIONS AND RATIONALE APPENDED AS SEPARATE DOCUMENT

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of Dec 12, 2012, I Cam Hannah , certify that I have read the toxic 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 Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Toxic Substances: *Methanol*



Signature Date


Dec 17, 2012

NAME: *Cam Hannah*
TITLE: *Production Manager*
COMPANY: *Resolute Forest products*

CERTIFICATION BY LICENCED PLANNER

As of Dec 19, 2012, I, Pascale Lagace certify that I am familiar with the processes at Resolute FP Canada Inc. Thunder Bay Sawmill that use or create the toxic substance 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 plan dated Dec 12, 2012 and that the plan complies with the Act and Ontario Regulation 455/09 (General) made under the Act.

Toxic Substances: *Methanol*



Signature Date

Dec 19, 2012

NAME: *Pascale Lagace*
TITLE: *Environmental Director*
COMPANY: *Resolute Forest Products*
LICENCE # *TSRP0073*