

An abstract graphic consisting of overlapping, wavy bands of color in shades of blue, green, and yellow, creating a sense of movement and depth, resembling a stylized landscape or a flowing ribbon.

Toxic Reduction Plan

Public Summary

Ethanol

April 22, 2015

388 Goodyear Rd.

Napanee, Ontario



SUBSTANCE AND FACILITY INFORMATION

Toxic Substances	
Substance Name	Ethanol (Ethyl Alcohol)
Chemical Abstracts Service Registry Number	CAS 64-17-5
Other toxic substance plans	Zinc (7440-66-6)

Facility Information	
Legal Company Name	Goodyear Canada Inc.
Facility Name	Napanee
Facility Address	388 Goodyear Road, R.R.7, Napanee, ON, K7R 3L2
Web Site Address	http://www.goodyear.ca/en-CA/tires-home
Spatial Coordinates of Facility	Latitude: 44.2870 Longitude: -76.9482
Number of Full Time Employees (or equivalents)	764
NPRI ID#	1322
O.Reg 127/01 ID	NA

Primary North American Industrial Classification system Code (NAICS)	
2 Digit NAICS Code	31-33 - Manufacturing
4 Digit NAICS Code	3262 (Rubber Product Mfg.)
6 Digit NAICS Canada Code	326210 (Tire Manufacturing)

Facility Public Contact Information	
Name & Title	Michael MacGregor (Technology Team Leader)
Phone	613-354-7777

Plan Developer / Coordinator and Technical Contact	
Name & Title	Michael MacGregor (Technology Team Leader)
Phone	613-354-7777

Certified Planner Contact	
Name	Ted Bailey
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Planner License No.	TSRP0031

Corporate Headquarter Contact Information	
Address	The Goodyear Tire and Rubber Company – 100% 1144 E Market St. Dept 111/B, BLDG 29A, Floor 5 Akron, OH 44316, USA
Phone	330-796-6862



INTRODUCTION

Ontario's Toxics Reduction Act and Regulation (O.Reg 455/09) aims to protect the health of people and the environment by reducing the use and emission of toxic substances. The Act is the cornerstone of Ontario's Toxics Reduction Strategy, which is focused on:

- Managing and reducing the use and creation of toxic substances in order to protect the environment and human health
- Informing the public about toxics in their communities; and
- Helping ensure that Ontario is well-positioned to compete in an emerging green global economy.

This strategy supplements the traditional 'end of pipe' approach to managing toxic substances released into the environment by focusing on reducing the creation and use of these substances at the 'front end' of manufacturing processes.

The act requires regulated facilities to:

- Track and quantify the toxic substances that they use and create
- Develop plans to reduce the use and creation of these substances; and
- Make summaries of their plans available to the public.

Goodyear Canada Inc.'s (Goodyear's) facility located in Napanee, Ontario, Canada (Goodyear Napanee) has developed the following Toxic Reduction Plan Summary for ethanol pursuant to the Act.

PLAN SUMMARY STATEMENT

This plan summary accurately reflects the content of the toxic substance reduction plan for ethanol, prepared by Goodyear (Napanee), dated April 22, 2015.

FACILITY DESCRIPTION

Goodyear Napanee manufactures high quality tires for the North American Tire (NAT) market and is a certified ISO14001:2004 facility. The Napanee facility operates 24 hours per day, 7 days a week.

STATEMENT OF INTENT

Tire treads made with silica rubber offer many safety and environmental benefits:



- Up to 5 % savings in fuel consumption (based on a 20% reduction in rolling resistance), which can save the motorist the cost of the tires over their lifespan;
- An improvement in wet skid performance by as much as 15 %, substantially improving braking distances at the same time; and
- Substantial benefits at lower temperatures in both winter and all-season tires, allowing better grip and braking during winter weather.

However, the use of silica requires a coupling agent, which generates ethanol emissions during mixing and curing processes.

Goodyear Napanee is committed to playing a leadership role in protecting the environment. We will continue to monitor advancements in silica rubber production to ensure that options that are both technologically and financially viable are implemented at our facility.

TOXIC REDUCTION OBJECTIVES & TARGETS

Technically and economically feasible options have not been identified which reduce the creation or release of ethanol and offer similar or improved product benefits.

OPTIONS FOR IMPLEMENTATION

Options were not identified as being technically feasible at this time, but Goodyear will continue to work on researching and developing options.

CERTIFICATION

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of April 22, 2015, I, Lester Brooks, certify that I have read the toxic substance reduction plan for the toxic substance 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 Ontario Regulation 455/09 (General) made under that Act.
Ethanol

The December 31st deadline for the plan submittal not being met was precipitated by a change in Environmental Management at the plant.



Lester Brooks, Plant Manager
Goodyear (Napanee)

CERTIFICATION BY LICENSED PLANNER

As of April 22, 2015, I, Ted Bailey, certify that I am familiar with the processes at Goodyear (Napanee) 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 the plan dated Dec 7th, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.
Ethanol



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