



Toxic Reduction 2016 Plan Summary

Cobalt

Date: November 21, 2017

388 Goodyear Rd.

Napanee, Ontario



SUBSTANCE AND FACILITY INFORMATION

Toxic Substances	
Substance Name	Cobalt (and its compounds)
Chemical Abstracts Service Registry Number	NA-05
Other toxic substance plans	Zinc (7440-66-6), PM10, PM2.5, Ethanol (64-17-5), Methyl Iso-Butyl Ketone (108-10-1), Toluene (108-88-3), Xylene (1330-20-7), Hexane (110-54-3), Nitrogen Oxides (11104-93-1), Ethylene Glycol (107-21-1)
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	UTM Easting: 344558.90; UTM Northing: 4905595.73; UTM Zone 18T
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	Julie McLachlan (Environmental Coordinator), 613-354-7835
Plan Developer / Coordinator and Technical Contact	
Name & Title	Julie McLachlan (Environmental Coordinator), 613-354-7835
Certified Planner Contact	
Name	Ted Bailey (ted@auri.ca , 613-893-3680, TSRP0031)
Highest Ranking Employee	
Name & Title	Lester Brooks (Plant Manager), 613-354-7701
Corporate Headquarter Contact Information	
Parent Company Contact	Carlton Williams (Regional Environmental Manager)
Address	The Goodyear Tire & Rubber Company, 200 Innovation Way Akron, OH 44316, USA
Phone	330-796-0811
Percentage Ownership	100%



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 the 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 for cobalt pursuant to the Act.

This Plan Summary summarizes the Cobalt Toxic Reduction Plan for the Napanee facility. It has been prepared to meet the regulatory obligations specified in Section 10 of the Act and Section 27(1) of Ontario Regulation 455/09, as amended from time to time.

PLAN SUMMARY STATEMENT

This plan summary accurately reflects the content of the toxic substance reduction plan for - Cobalt, prepared by Goodyear (Napanee), and dated November 6, 2017.

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 and ~360 days a year.



EXPLANATION FOR SUBSTANCE USE OR CREATION

Goodyear Napanee manufactures high quality tires for the North American Tire (NAT) market and is a certified ISO14001:2004 facility. One of the ingredients Goodyear uses in the tire making process is cobalt neodecanoate salts. Cobalt is an additive that is used only in the rubber that touches the belt wire. A tire consists of many different components built together on a drum and then cured in a press under heat and pressure to create a strong, safe product. One component of a tire is the belt package.

The belt package of a tire consists of calendered sheets of rubber and closely spaced steel cords. Belts give the tire strength and puncture resistance while allowing the tire to remain flexible. The belt package is under the tread and helps the tire stay flat so that it makes the best contact with the road. It is important that this rubber bonds well with the steel cords. The cobalt is added to ensure adhesion between the steel and the rubber during construction and during the life of the tire. It is critical that all components of a tire form a strong composite.

STATEMENT OF INTENT

Goodyear Napanee intends to reduce all cobalt waste streams through a varied number of waste reduction efforts. Goodyear does not intent to reduce the amount of cobalt used (no cobalt is created) due to a lack of technically feasible options at this time.

OPTIONS FOR IMPLEMENTATION

To reduce the use of Cobalt at the Goodyear Napanee facility, Goodyear Napanee has considered many options. While no options could be identified that were both technically and economically feasible at this time, Goodyear will continue to look at the use of Cobalt.

TOXIC REDUCTION OBJECTIVES & TARGETS

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



CERTIFICATION

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of November 13, 2017, 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.

Cobalt

A handwritten signature in black ink that reads 'Lester Brooks'.

Lester Brooks, Plant Manager
The Goodyear Tire & Rubber Company (Napanee)

CERTIFICATION BY LICENSED PLANNER

As of November 7, 2017, 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 November 6th, 2017 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Cobalt

A handwritten signature in black ink that reads 'Ted Bailey'.

Ted Bailey [Planner License # TSRP0031]
Environmental Management Consultant / Toxic Substance Reduction Planner
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