

Substance Reporting

Toyota Motor Manufacturing Canada (Woodstock)

In 2009, the Government of Ontario passed a legislation known as the Toxics Reduction Act, 2009. The purpose of this Act, and supporting regulation, is to:

- 1) prevent pollution and protect human health and environment by reducing the use and creation of specific substances and
- 2) inform the public.

The Ministry of Environment (MOE) requires facilities to report on the specific substances that have been defined by the Act and make this information available to the public on the internet.

Facility Information

Site: Toyota Motor Manufacturing Canada (Woodstock)
Address: 1717 Dundas Street
Woodstock, ON

General Information - Woodstock Plant

National Pollution Release Inventory (NPRI) ID: 11878
Ministry of Environment (MOE) ID for Ontario Regulation 127: 11209
Full time employees: Over 3000
Canada SIC 4 digit code: Motor Vehicle Mfg (3731)
U.S. SIC Code: Motor Vehicles and Car Bodies (3711)
NAICS 6 digit code: Automobile & Light Duty Motor Vehicle Mfg (336110)
UTM: 525258 (easting) 4776708 (northing), Zone 17
Canadian Parent Company: Not applicable to Toyota Motor Manufacturing Canada
E-mail: Gas stream behaves as an ideal gas (correct) M: Scott Mackenzie
Senior Manager, Government Affairs
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Reduction Plan Objectives

TMMC is committed to protecting the environment and ensuring that its automobile manufacturing operations are safe for its team members, the community and the environment. To support this commitment, TMMC will continue to lead pollution prevention and continual improvement activities for each reportable substance.

As per the plans created under Ontario Regulation 455/09, TMMC did not intend to implement any options identified through the Toxics Reduction Act Plan as no new activities were identified through the Act. TMMC will continue to evaluate potential opportunities for reduction of toxic substances through the ISO 14001 Environmental Management System and Environmental Policy. Therefore, no summary or quantification of actions taken will be made under section 27 (1) paragraph 6 of O. Reg. 455/09. Additionally, no amendments have been made to the toxics reduction plan during the reporting period.

ON MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 2020-07-23, I, Frank Vanden, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the "Submit Report(s)" button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Frank Vanden

7/22/20

General Information

Substance Name	CAS Number	Primary Use in the Facility	Emissions (tonnes)		Created (tonnes)			Released (tonnes)			Disposal (tonnes)			Transfers (tonnes)			Contained in Product			Reason for Changes	NPRI Part		
			2019 Quantity (tonnes)	Change in Percent (%)	Change in Mass (tonnes)	2019 Quantity (tonnes)	Change in Percent (%)	Change in Mass (tonnes)	2019 Quantity (tonnes)	Change in Percent (%)	Change in Mass (tonnes)	2019 Quantity (tonnes)	Change in Percent (%)	Change in Mass (tonnes)	2019 Quantity (tonnes)	Change in Percent (%)	Change in Mass (tonnes)	2019 Quantity (tonnes)	Change in Percent (%)			Change in Mass (tonnes)	
PM ₁₀		Byproduct of painting processes and combustion	N/A	N/A	N/A	1 to 10	8%	+1	1 to 50	10%	+1									Production related	4		
PM _{2.5}		Byproduct of painting processes and combustion	N/A	N/A	N/A	1 to 10	-3%	+1	1 to 10	-2%	+1									Production related	4		
Carbon monoxide	509-90-0	Byproduct of stationary combustion units	N/A	N/A	N/A	10 to 100	5%	1	10 to 100	4%	1									No significant change	4		
Hydrogen sulfide (reported as hydrogen disulfide)	11104-93-1	Byproduct of stationary combustion units	N/A	N/A	N/A	10 to 100	4%	-2	10 to 100	3%	1									No significant change	4		
Manganese (and its compounds)		Manganese is a component in the steel used to make the vehicle body	1,000 to 10,000	7%	111	N/A	N/A	N/A	0 to 1	8%	N/A	N/A	N/A	10 to 100	13%	11	1,000 to 10,000	5%	80	Inventory change	1		
Zinc (and its compounds)		Vehicle bodies are made of steel. Zinc is a critical component in the steel for its corrosion prevention properties. It is also used in the coating process to protect the steel body from rust (zinc is a part of the steel body from its coating process)	100 to 1,000	5%	44	N/A	N/A	N/A	0 to 1	-1%	+1	0 to 1	0%	N/A	1 to 10	1%	+1	100 to 1,000	5%	44	No significant change	1	
Nitrate ion (as nitrogen equivalent)		Byproduct of wastewater treatment operation, contained in sewage sludge, assembled vehicles	1 to 10	17%	0	1 to 10	99%	1	N/A	N/A	N/A	N/A	N/A	0 to 1	100%	+1	1 to 10	17%	<1	Production related	1		
Xylene (all isomers)	1330-20-7	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	-1%	0	N/A	N/A	N/A	10 to 100	58%	5	0 to 1	-2%	+1	10 to 100	35%	8	N/A	N/A	N/A	Production related	1,5	
Methane	67-68-1	The primary ingredient in wastewater gas added to the sewerage system	100 to 1,000	14%	57	N/A	N/A	N/A	1 to 10	-2%	+1	0 to 1	-25%	+1	0 to 1	83%	+1	100 to 1,000	14%	35	Production related	1,5	
Isopropyl alcohol	67-63-0	A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	-4%	-4	N/A	N/A	N/A	1 to 10	-2%	0	0 to 1	142%	+1	1 to 10	39%	+1	N/A	N/A	N/A	Material reformulation, no longer reportable Part 1	1,5	
n-Butyl alcohol	71-36-3	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	11%	-4	N/A	N/A	N/A	10 to 100	5%	1	0 to 1	-42%	+1	0 to 1	43%	+1	N/A	N/A	N/A	Material reformulation	1	
2-Ethylhexanol	95-63-6	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	-40%	-3	N/A	N/A	N/A	1 to 10	8%	1	0 to 1	60%	+1	0 to 1	89%	+1	N/A	N/A	N/A	Material reformulation	1,5	
4-Aminodiphenyl ether	101-68-8	A component used to manufacture plastic interior panels for the vehicle	10 to 100	N/A	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0 to 1	N/A	+1	N/A	N/A	N/A	N/A	Material reformulation	1,5	
Ethylene glycol	107-21-1	The primary ingredient in long life coolant added to the assembled vehicle	100 to 1,000	17%	129	N/A	N/A	N/A	0 to 1	-4%	0	N/A	N/A	1 to 10	130%	-2	100 to 1,000	17%	129	Production related	1		
Methyl isobutyl ketone	109-10-1	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	11%	-2	N/A	N/A	N/A	1 to 10	0%	+1	0 to 1	0%	N/A	1 to 10	35%	0	N/A	N/A	N/A	Material reformulation	1,5	
n-Butyl acetate	111-76-2	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	11%	1	N/A	N/A	N/A	1 to 10	96%	5	0 to 1	137%	+1	1 to 10	66%	+1	N/A	N/A	N/A	Material reformulation	1,5	
Methyl tert-butyl ether	1534-04-4	A secondary ingredient in gasoline added to the assembled vehicle	100 to 1,000	14%	11	N/A	0%	N/A	0 to 1	0%	0%	0 to 1	0	+1	N/A	N/A	N/A	100 to 1,000	14%	11	Production related	1	
Supercritical CO ₂	7064-93-8	Used to treat wastewater primarily generated by painting operations to meet municipal discharge quality requirements. It is completely neutralized and it therefore not released	10 to 100	22%	7	N/A	N/A	N/A	N/A	N/A	N/A	0 to 1	N/A	+1	N/A	N/A	N/A	N/A	N/A	N/A	Production related	1	
Polyethylene glycol (PEG)	9916-87-9	A component used to manufacture plastic interior panels for the vehicle	10 to 100	23%	0	N/A	N/A	N/A	N/A	N/A	N/A	0 to 1	100%	+1	N/A	N/A	N/A	N/A	N/A	N/A	Production related	1	
N,N-Dimethylformamide	68-12-6	A component used to manufacture plastic interior panels for the vehicle	1 to 10	-3%	0	N/A	0%	N/A	0 to 1	97%	+1	0 to 1	N/A	N/A	0 to 1	0%	N/A	N/A	N/A	N/A	Production related	1,5	
Diethylamine (reported as diethylamine hydrochloride)	105-60-0	A VOC which is a component of vehicle paint and materials used in the painting process	100 to 1,000	1%	2	N/A	3%	N/A	10 to 100	67%	21	0 to 1	N/A	N/A	0 to 1	0%	N/A	N/A	1 to 10	-5%	+1	Production related	1,5
Hexamethylenetetramine (reported as hexamine)	105-60-0	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	8%	3	N/A	0%	N/A	10 to 100	83%	8	0 to 1	N/A	N/A	0 to 1	0%	N/A	N/A	N/A	N/A	Production related	1,5	
Methyl ethyl ketone	78-93-3	A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	-5%	+1	N/A	N/A	N/A	1 to 10	-6%	+1	0 to 1	-4%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Material reformulation	1,5	
Propylene glycol diethyl ether	106-65-6	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	-10%	-1	N/A	N/A	N/A	1 to 10	-10%	-1	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Material reformulation	1,5	
Toluene	108-88-3	A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	-3%	0	N/A	N/A	N/A	1 to 10	3%	0	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Production related	1,5	
Diethyl ether	6052-41-3	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	45%	0	N/A	N/A	N/A	1 to 10	11%	0	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Production related	1,5	
Diethylamine (reported as diethylamine hydrochloride)	64741-85-7	A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	N/A	4	N/A	0%	N/A	1 to 10	N/A	1	0 to 1	N/A	N/A	0 to 1	0%	N/A	N/A	N/A	N/A	Production related	1,5	
Hydroxyacetone	64742-47-8	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	-18%	-5	N/A	N/A	N/A	1 to 10	4%	-1	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Material reformulation	1,5	
Hydroxyethyl alcohol	64742-48-9	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	45%	23	N/A	N/A	N/A	10 to 100	25%	2	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Production related	1,5	
Solvent mixture (light alcohols)	64742-89-0	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	2%	0	N/A	N/A	N/A	1 to 10	60%	2	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Production related	1,5	
Light solvent mixture (reported as solvent mixture)	64742-85-6	A VOC which is a component of vehicle paint and materials used in the painting process	10 to 100	7%	-5	N/A	N/A	N/A	10 to 100	21%	3	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Material reformulation	1,5	
Hexamethylenetetramine (reported as hexamine)		A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	-6%	-2	N/A	N/A	N/A	0 to 1	-53%	+1	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	No longer reportable	1,5	
Tetrahydrofuran (reported as THF)	29551-13-7	A VOC which is a component of vehicle paint and materials used in the painting process	1 to 10	-9%	0	N/A	N/A	N/A	1 to 10	15%	+1	0 to 1	-10%	+1	1 to 10	10%	+1	N/A	N/A	N/A	Material reformulation	1,5	

Data for disposal, transfer and contained in product are not required under O. Reg 455 for substances belonging to Part 4 and Part 5 of NPRI.

Data for disposal, transfer and contained in product are not required under O. Reg 455 for substances belonging to Part 4 and Part 5 of NPRI.

2017 Toxic Substance Plan Summary

Toyota Motor Manufacturing Canada (Woodstock)

The Ontario Ministry of Environment and Climate Change (MOECC) has passed a new Act. The purpose of this Act, and supporting regulation, is to:
 1) Prevent pollution and protect human health and environment by reducing the use and creation of specific substances and
 2) Inform the public

Substances with Prepared Plans

Substance and CAS number:

Sulphuric acid CAS No.:(7664-93-9)	1-Butoxy-2-Propanol CAS No. (5131-66-2)
Manganese (and its compounds) CAS No. (N/A)	n-Butyl alcohol CAS No. (71-36-3)
CO CAS No.:(630-08-0)	1,2,4-Trimethylbenzene CAS No. (65-63-6)
NOX CAS No.:(N/A)	Methyl isobutyl Ketone CAS No.:(108-40-1)
PM-2.5 CAS No.:(N/A)	Butyl cellosolve CAS No.:(111-76-2)
PM-10 CAS No.:(N/A)	Xylene Isomers CAS No.:(1330-20-7)
Sodium nitrate CAS No.:(7632-00-0)	Ethylene Glycol CAS No.:(107-21-1)
Phosphorus CAS No.:(N/A)	Methyl Ethyl Ketone CAS No.:(78-93-3)
Nitrate ion CAS No.:(N/A)	n-Butyl acetate CAS No. (123-86-4)
Zinc (and its compounds) CAS No.:(N/A)	Petroleum distillate, hydrotreated light CAS No.:(64742-47-8)
Toluene CAS No.:(108-88-3)	Naphtha, hydrotreated heavy CAS No.:(64742-48-9)
Acetone CAS No.:(67-64-1)	Solvent naphtha, light aliphatic CAS No.:(64742-89-6)
Isopropyl alcohol CAS No.:(67-63-0)	Solvent naphtha, light aromatic CAS No.:(64742-95-6)
Methanol CAS No.:(67-56-1)	Stoddard Solvent CAS No.:(8052-32-4)
Formaldehyde CAS No.:(50-00-0)	Huplane Isomers CAS No.:(N/A)
<i>Propylene Glycol Monomethyl Ether Acetate (108-65-6)</i>	<i>Trimethylbenzene (25551-13-7)</i>
Nitric acid CAS No.:(7697-37-2)	

Facility Information

Site:

Address:

Mailing Address:

Toyota Motor Manufacturing Canada (Woodstock)
 1717 Dundas Street
 Woodstock, ON
 1055 Fountain Street North,
 P.O. Box 5002
 Cambridge ON N3H 5K2

General Information - Woodstock Plant

National Pollutant Release Inventory (NPRI) ID:

Ministry of Environment (MOE) ID:

Full time employees:

NAICS 2-digit code:

NAICS 4-digit code:

U.S. SIC Code:

NAICS 6-digit code:

UTM:

Public Contact:

11576
 11209
 3100
 Transportation Equipment Industries (32)
 Motor Vehicle Ind (3231)
 Motor Vehicles and Car Bodies (3711)
 Automobile & Light-Duty Motor Vehicle Mfg. (336110)
 525258 (easting), 4776708 (northing), Zone 17
 Mr. Scott Mackenzie
 Manager, Government Affairs
 (519) 653-1111 ext 2380
 Scott.Mackenzie@toyota.com
 Beth Rhyno, P.Eng.
 TRSP #0273

Toxic Substance Reduction Planner

License No. (Recommendations & Certifying):

Toxic Reduction Plan Information

Reduction Plan Objectives

TMMC is committed to protecting the environment and ensuring that its automobile manufacturing operations are safe for its team members, the community and the environment. To support this commitment, TMMC will continue to lead pollution prevention and continual improvement activities for each reportable substance.

Reduction Plan Statement of Intent

In accordance with TMMC's ISO 14001 Environmental Management System (EMS) and Corporate Objectives, the facility will continue to set and regularly assess environmental objectives and targets in order to ensure the continuation of proactive environmental procedures and practices. Through these practices, the facility will strive to reduce the use of toxic substances, whenever technically and economically feasible. It is also TMMC's policy to actively promote environmental awareness among team members through continual education and training and strive to comply with all municipal, provincial and federal legislation as well as other requirements related to the environment.

Substance Name	CAS Number	Description of Primary Use in the Facility	Statement of Intent
Sulphuric acid	7664-93-9	Sulphuric acid is used to treat wastewater primarily generated by painting operations to meet municipal discharge quality requirements. It is completely neutralized and it therefore not released.	In accordance with s. 4(1)5 of the Toxics Reduction Act, the facility does not intend to implement any options because currently there are no known alternative options that achieve the treatment levels necessary to meet the municipal discharge criteria. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
Nitric acid	7697-37-2	Nitric acid is used to treat wastewater primarily generated by painting operations to meet municipal discharge quality requirements. It is completely neutralized and it therefore not released.	

Manganese (and its compounds)	*	Manganese is a component in the steel used to make the vehicle body.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options because manganese is a core component of the steel used for the vehicle body and is required to maintain the quality and safety of the product. Additionally, re-design of the vehicle is not within the control of the facility. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
Methanol	67-56-1	Primary ingredient in windshield washer fluid which is topped up in each vehicle.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options because methanol is a core component of the windshield washer fluid required for the safety of product use by the consumer and no technically feasible alternatives have been identified at this time. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
Toluene	108-89-3	Toluene is a VOC which is a component of the vehicle paint.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options because the coatings have been strategically selected to maintain product quality and particular model specifications. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
CO	630-08-0	Created by as a by-product of diesel combustion equipment at the facility.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options identified through the Toxics Reduction Act Plan as no technically feasible options were identified. As by-products of natural gas and diesel combustion, the creation of these substances cannot be avoided by the use of natural gas and diesel generators. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
NOX	*		
PM-10	*	Created from production emissions and combustion equipment at the facility. Emissions are discharged to air.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options identified through the Toxics Reduction Act Plan as no technically feasible options were identified. As by-products of diesel combustion, the creation of these substances cannot be avoided by the use of diesel generators. PM is also generated as a by-product of automotive manufacturing processes. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
PM-2.5	*		
Sodium nitrite	7532-00-0	Sodium nitrite is a component in the materials used to maintain the pH of the phosphate pre-treatment process.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options identified through the Toxics Reduction Act Plan as no technically feasible options were identified. This substance is required to maintain the pH of the paint pre-treatment process. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
Phosphorus Total	*	Phosphorus is a component in the materials used in the coating process to pre-treat the steel body prior to applying the paint.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options identified through the Toxics Reduction Act Plan as no technically feasible options were identified. This substance is the critical component required to prepare the surface of the vehicle in the industry standard method for the painting process pre-treatment process. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
Nitrate ion	*	Nitrate ion is a component in the materials used in the coating process to pre-treat the steel body prior to applying the paint.	
1,2,4-Trimethylbenzene	95-63-6	1,2,4-Trimethylbenzene is a VOC which is a component of the vehicle paint.	In accordance with s. 4(1)(b) of the Toxics Reduction Act, the facility does not intend to implement any options identified through the Toxics Reduction Act Plan as no new technically feasible options were identified. The feasible options noted at the plan have been previously identified through existing ISO 14001 programs at the Facility. In accordance with TMMC's ISO 14001 Environmental Management System and Environmental Policy, potential opportunities for reduction will continue to be evaluated on a regular basis.
1-Butoxy-2-Propanol	5131-66-8	2-propanol, 1-butoxy is a VOC which is a component of the vehicle paint.	
Acetone	67-64-1	Acetone is a VOC which is a component of the vehicle paint.	
Butyl cellosolve	111-76-2	Butyl cellosolve is a VOC which is a component of the vehicle paint.	
Ethylene Glycol	107-21-1	Primary ingredient in the long life coolant which is added to the engine of each vehicle.	
Formaldehyde	50-00-00	Formaldehyde is a VOC which is a component of the vehicle paint.	
Heptane Isomers	*	Heptane is a VOC which is a component of the vehicle paint.	
Isopropyl alcohol	67-63-0	Isopropyl alcohol is a VOC which is a component of the vehicle paint.	
Methyl Ethyl Ketone	78-93-3	Methyl ethyl ketone is a VOC which is a component of the vehicle paint.	
Methyl Isobutyl Ketone	108-10-1	Methyl isobutyl ketone is a VOC which is a component of the vehicle paint.	
Naphtha, hydrotreated heavy	64742-48-0	Naphtha, hydrotreated heavy is a VOC which is a component of vehicle paint and sealers.	
n-Butyl acetate	123-86-4	n-Butyl acetate is a VOC which is a component of the vehicle paint.	
n-Butyl alcohol	71-36-3	n-Butyl alcohol is a VOC which is a component of the vehicle paint.	
Petroleum distillates, hydrotreated light	64742-47-6	Naphtha, hydrotreated heavy is a VOC which is a component of vehicle paint and sealers.	

Solvent naphtha, light aliphatic	64742-89-8	Solvent naphtha, light aliphatic is a VOC which is a component of the vehicle paint.
Solvent naphtha, light aromatic	64742-95-6	Solvent naphtha, light aromatic is a VOC which is a component of the vehicle paint.
Stoddard Solvent	6052-32-4	Stoddard Solvent is a VOC which is a component of the vehicle paint.
Trimethylbenzene	25551-13-7	Trimethylbenzene is a VOC which is a component of the vehicle paint.
Propylene Glycol Monomethyl Ether Acetate	108-65-6	Propylene Glycol Monomethyl Ether Acetate is a VOC which is a component of the vehicle paint.
Xylene Isomers	1330-20-7	Xylene is a VOC which is a component of the vehicle paint.
Zinc (and its compounds)		Car bodies are made of steel. Zinc is a critical component in the steel for its corrosion prevention properties. It is also used in the coating process to pre-treat the steel body prior to applying the coat.

In addition to the facility's ISO 14001 certified systems and corporate objectives, Toyota has also prioritized environmental programs for its operations worldwide through the Toyota Global Vision and Guiding Principles and Earth Charter. Toyota's Earth Charter has been in place since 1992 and exemplifies the company's comprehensive approach to environmental programs. Environmental improvements at the facility are guided by the Policies and Action Guidelines stated within the charter, which is adhered to by all Toyota's operations worldwide. Within North America, Toyota's Action Plan highlights the environmental key performance indicators for energy, VOC emissions, waste, and water reduction. Toyota Motor Manufacturing Canada's targets for reduction are incorporated within the North American Action Plan. For more information on Toyota's Environmental Sustainability Report and Earth Charter please visit the following sites:

- 1) <http://www.toyota.com/usa/environmentreport2016/>
- 2) <http://www.toyota-global.com/sustainability/>

Plan Summary Statement

This Plan Summary accurately reflects the content of the toxic substance reduction plans, prepared by Karina Kenigsberg for the following substances:

- Manganese (and its compounds), 13 December 2013
- Methanol, 2 December 2016
- Toluene, 13 December 2013
- CO, 13 December 2013
- NOX, 13 December 2013
- PM-10, 13 December 2013
- PM-2.5, 13 December 2013
- Sodium Nitrite, 13 December 2013
- Phosphorus (and its compounds), 13 December 2013
- Nitrate ion, 30 November 2015
- 1,2,4-Trimethylbenzene, 2 December 2016
- Acetone, 13 December 2013
- Butyl Cellosolve, 13 December 2013
- Sulphuric Acid, 2 December 2016
- Stoddard Solvent, 2 December 2014
- *Propylene Glycol Monomethyl Ether Acetate*, 2 December 2016
- Nitric Acid, 17 December 2019
- Heptane Isomers, 2 December 2014
- Methyl Ethyl Ketone, 13 December 2013
- Methyl Isobutyl Ketone, 13 December 2013
- Naphtha, hydrotreated heavy, 13 December 2013
- n-Butyl acetate, 13 December 2013
- n-Butyl alcohol, 13 December 2013
- Petroleum distillate, hydrotreated light, 30 November 2015
- Solvent naphtha, light aliphatic, 13 December 2013
- Zinc (and its compounds) , 13 December 2013
- Solvent naphtha, light aromatic, 13 December 2013
- Xylene Isomers, 13 December 2013
- Ethylene Glycol, 13 December 2013
- Isopropyl Alcohol, 13 December 2013
- Formaldehyde, 2 December 2014
- 1-Butoxy-2-Propanol, 30 November 2015
- *Trimethylbenzene Isomers without 95-63-6*, 2 December 2016

Copy of Certifications

Certification by Highest Ranking Employee

As of **June 20, 2019** I, **Derek Kldnie**, 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.

- Manganese (and its compounds), 13 December 2013
- Methanol, 2 December 2016
- Toluene, 13 December 2013
- CO, 13 December 2013
- NOX, 13 December 2013
- PM-10, 13 December 2013
- PM-2.5, 13 December 2013
- Sodium Nitrite, 13 December 2013
- Phosphorus (and its compounds), 13 December 2013
- Nitrate ion, 30 November 2015
- 1,2,4-Trimethylbenzene, 2 December 2016
- Acetone, 13 December 2013
- Butyl Cellosolve, 13 December 2013
- Sulphuric Acid, 2 December 2016
- Stoddard Solvent, 2 December 2014
- *Propylene Glycol Monomethyl Ether Acetate*, 2 December 2016
- *Nitric acid CAS No.:(7697-37-2)*
- Heptane Isomers, 2 December 2014
- Methyl Ethyl Ketone, 13 December 2013
- Methyl Isobutyl Ketone, 13 December 2013
- Naphtha, hydrotreated heavy, 13 December 2013
- n-Butyl acetate, 13 December 2013
- n-Butyl alcohol, 13 December 2013
- Petroleum distillate, hydrotreated light, 30 November 2015
- Solvent naphtha, light aliphatic, 13 December 2013
- Zinc (and its compounds) , 13 December 2013
- Solvent naphtha, light aromatic, 13 December 2013
- Xylene Isomers, 13 December 2013
- Ethylene Glycol, 13 December 2013
- Isopropyl Alcohol, 13 December 2013
- Formaldehyde, 2 December 2014
- 1-Butoxy-2-Propanol, 30 November 2015
- *Trimethylbenzene Isomers without 95-63-6*, 2 December 2016

Signed by:



Certification by Licensed Planner

As of **June 19, 2019**, I, **Beth Rhyno (TRSP #0273)**, certify that I am familiar with the processes at Toyota Motor Manufacturing Canada that use or create 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 Toxics 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 that Act and Ontario Regulation 455/09 (General) made under that Act.

- Manganese (and its compounds), 13 December 2013
- Methanol, 2 December 2016
- Toluene, 13 December 2013
- CO, 13 December 2013
- NOX, 13 December 2013
- PM-10, 13 December 2013
- PM-2.5, 13 December 2013
- Sodium Nitrite, 13 December 2013
- Phosphorus (and its compounds), 13 December 2013
- Nitrate ion, 30 November 2015
- 1,2,4-Trimethylbenzene, 2 December 2016
- Acetone, 13 December 2013
- Butyl Cellosolve, 13 December 2013
- Sulphuric Acid, 2 December 2016
- Stoddard Solvent, 2 December 2014
- *Propylene Glycol Monomethyl Ether Acetate*, 2 December 2016
- *Nitric acid CAS No.:(7697-37-2)*
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- Petroleum distillate, hydrotreated light, 30 November 2015
- Solvent naphtha, light aliphatic, 13 December 2013
- Zinc (and its compounds) , 13 December 2013
- Solvent naphtha, light aromatic, 13 December 2013
- Xylene Isomers, 13 December 2013
- Ethylene Glycol, 13 December 2013
- Isopropyl Alcohol, 13 December 2013
- Formaldehyde, 2 December 2014
- 1-Butoxy-2-Propanol, 30 November 2015
- *Trimethylbenzene Isomers without 95-63-6*, 2 December 2016

Signed by:

