June 1, 2011 - O. Reg 455/09

The National Pollutant Release Inventory (NPRI) is Canada's publicly accessible inventory of releases (to air, water and land), disposals and transfer for recycling that are associated with industrial activity. Over 84,000 facilities report to the NPRI on more than 300 listed substances. GMCL has been reporting in accordance with federal NPRI regulations since its inception in 1992.

O.Reg 455/09 is a new regulation in Ontario that applies specifically to facilities and products made in Ontario; the first reporting obligation under this regulation is on June 1, 2011.

Regulation 455 requires facilities to report on the use and creation of substances of concern which are currently identical to the NPRI list. In addition to substance use and creation, NPRI requirements are reported along with the amount of the substance contained in product.

Vehicles are made by all manufacturers in a similar manner globally. All vehicles sold in Canada must meet the same safety standards and consumer performance expectations for the Canadian market as well as export markets where they may be sold. To meet these expectations, many of the substances listed in Regulation 455 as "substances of concern" are utilized in the manufacture of all vehicles, including those assembled elsewhere and imported to Ontario for sale. Only the vehicles assembled in Ontario, however, are required to report these substances.

For General Motors of Canada, the vast majority of what Regulation 455 requires be reported as 'releases' includes materials that are either contained in the product or collected and recycled, posing minimal environmental or health risks.

For example, the greater part of Regulation 455 reported metal releases are collected as metal chips and scrap and recycled into new metal or are contained as part of the finished vehicle.

Metals and alloys such as copper, manganese, and nickel are commonly used in automotive components (such as Powertrain components) for their ability to strengthen, improve conductivity, and resist corrosion. Zinc is similarly used in automotive sheet metal and sealers to reduce corrosion in the vehicle body.

Methanol is a key ingredient in windshield washer fluid and Regulation 455 reported uses of methanol are primarily the methanol content of the windshield washer fluid added to every car manufactured in our assembly plants.

Facility information

NPRI ID number:	3229		
MOE ID number:	NA		
Owner and Operator:	General Motors of Canada Limited		
Facility Name & Address:	Windsor Transmission Plant 1550 Kildare Road Windsor, ON N8W 5M1	Mailing Address:	1908 Colonel Sam Drive Oshawa, ON L1H 8P7 Mail Code: CA1-045-002
Full-time employee equivalents:	500		
NAICS Codes:	33 3363 336390		
Public Contact for this Report:	Laura Malyjasiak Sr. Environmental Analyst Corporate Affairs 905-644-6185		
Spatial Coordinates for Facility:	334790 m E 4685750 m N		
Canadian parent company:	NA		

Substances used or created at the facility requiring plans:

Substance Name	CAS Number	Primary Use in the facility	Use (tonnes)	Created (tonnes)	Release (tonnes)	Disposal (tonnes)	Off-site Recycling (tonnes)	Contained in Product (tonnes)	Comparison to Quantifications from Previous Year	Explanation for changes in Quantifications	Objectives and Targets of Substance Reduction Plan	Summary of Plan Progress or Additional Actions	Description of Amendments to Plan
Copper and its compounds	NA 06	Copper is used at the facility as an alloy in the aluminum used to manufacture transmissions and other automotive components.	100 - 1000	N/A	0.0007	0.027	21.372	100 - 1000	Not requred for 2010 reporting year.				

Annual Report Certification Statement

As of May 30, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Copper (and its compounds)} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09(General) made under the Act.

Paul Janisse, Site Utilities Manager

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Facility information

NPRI ID number:	3227		
MOE ID number:	NA		
Owner and Operator:	General Motors of Canada Limited		
Facility Name & Address:	Ontario Street Plant 285 Ontario Street St. Catharines, ON L2R 7B3	Mailing Address:	570 Glendale Avenue St. Catharines, ON L2R 7B3 Mail Code: CA1-500-001
Full-time employee equivalents:	545		
NAICS Codes:	33 3363 336350		
Public Contact for this Report:	Laura Malyjasiak Sr. Environmental Analyst Corporate Affairs 905-644-6185		
Spatial Coordinates for Facility:	641127 m E 4780541 m N		
Canadian parent company:	NA		

Substances used or created at the facility requiring plans:

Substance Name	CAS Number	Primary Use in the facility	Use (tonnes)	Created (tonnes)	Release (tonnes)	Disposal (tonnes)	Off-site Recycling (tonnes)	Contained in Product (tonnes)	Comparison to Quantifications from Previous Year	Explanation for changes in Quantifications	Objectives and Targets of Substance Reduction Plan	Summary of Plan Progress or Additional Actions	Description of Amendments to Plan
Manganese and its compounds	NA 09	Manganese is used at the facility as an alloy in metals used for automotive components.	10 - 100	N/A	0.002	0.021	34.149	10 - 100	Not requred for 2010 reporting year.				
Nickel and its compounds	NA 11	Nickel is used at the facility as an alloy in metals used for automotive components.	10 - 100	N/A	0.002	0.001	19.9	10 - 100	Not requred for 2010 reporting year.				

Annual Report Certification Statement

As of May 19, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Manganese (and its compounds), Nickel (and its compounds)} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Carolyne Watts, Plant Manager

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Facility information

NPRI ID number:	3231
MOE ID number:	NA
Owner and Operator:	General Motors of Canada Limited
Facility Name & Address:	Glendale Avenue Plant 570 Glendale Avenue St. Catharines, ON L2R 7B3
Full-time employee equivalents:	1529
NAICS Codes:	33 3363 336310
Public Contact for this Report:	Laura Malyjasiak Sr. Environmental Analyst Corporate Affairs 905-644-6185
Spatial Coordinates for Facility:	647210 m E 4777677 m N
Canadian parent company:	NA

Substances used or created at the facility requiring plans:

Substance Name	CAS Number	Primary Use in the facility	Use (tonnes)	Created (tonnes)	Release (tonnes)	Disposal (tonnes)	Off-site Recycling (tonnes)	Contained in Product (tonnes)	Comparison to Quantifications from Previous Year	Explanation for changes in Quantifications	Objectives and Targets of Substance Reduction Plan	Summary of Plan Progress or Additional Actions	Description of Amendments to Plan
Manganese and its compounds	NA 09	Manganese is used at the facility as an alloy in metals used for automotive components.	100 - 1000	N/A	0.006	N/A	65.263	100 - 1000	Not requred for 2010 reporting year.				
Copper and its compounds	NA 09	Copper is used at the facility as an alloy in metals used for automotive components.	100 - 1000	N/A	0.022	N/A	193.341	100 - 1000	Not requred for 2010 reporting year.				

Annual Report Certification Statement

As of May 19, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Manganese (and its compounds), Copper (and its compounds)} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Carolyne Watts, Plant Manager

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Facility information

NPRI ID number:	3480
MOE ID number:	6771
Owner and Operator:	General Motors of Canada Limited
Facility Name & Address:	CAMI Assembly Plant 300 Ingersoll Street Ingersoll, ON
Full-time employee equivalents:	2918
NAICS Codes:	33 3361 336110
Public Contact for this Report:	Laura Malyjasiak Sr. Environmental Analyst Corporate Affairs 905-644-6185
Spatial Coordinates for Facility:	509113 m E 4761564 m N
Canadian parent company:	NA

Substances used or created at the facility requiring plans:

Substance Name	CAS Number	Primary Use in the facility	Use (tonnes)	Created (tonnes)	Release (tonnes)	Disposal (tonnes)	Off-site Recycling (tonnes)	Contained in Product (tonnes)	Comparison to Quantifications from Previous Year	Explanation for changes in Quantifications	Objectives and Targets of Substance Reduction Plan	Summary of Plan Progress or Additional Actions	Description of Amendments to Plan
Ethylbenzene	100-41-4	Ethylbenzene is a solvent used primarily in paint formulations and found in trace amounts in automatic transmission fluid. Solvent use is common to all vehicle painting processes.	10 - 100	N/A	11.743	N/A	N/A	0 - 1	Not requred for 2010 reporting year.				
Toluene	108-88-3	Toluene is a solvent used primarily in paint formulations and for paint shop cleaner formulations. Solvent use is common to all vehicle painting processes.	100 - 1000	N/A	60.276	N/A	80.994	N/A	Not requred for 2010 reporting year.				
Methanol	67-56-1	Methanol is the primary ingredient in windshield washer fluid. It is required for its cleaning properties and low freezing point to allow for winter use.	100 - 1000	N/A	2.977	N/A	0.228	100 - 1000	Not requred for 2010 reporting year.				
Xylene (mixed isomers)	NA 20	Xylenes are solvents used primarily in automotive paint formulations and found in trace amounts in automatic transmission fluids. Solvent use is common to all vehicle painting processes.	100 - 1000	N/A	193.921	N/A	212.525	0 - 1	Not requred for 2010 reporting year.				
Zinc and its compounds	NA 21	Zinc is a metal found primarily in vehicle sheet metal and vehicle sealers. Zinc is used in both applications for its corrosion inhibition properties and is common to all vehicles.	TBD	N/A	0.369	N/A	TBD	1000 - 10,000	Not requred for 2010 reporting year.				
Formaldehyde	50-00-0	Formaldehyde is created when the melamine resin in paints is cured.	1 - 10	1 - 10	9.679	N/A	N/A	N/A	Not requred for 2010 reporting year.				

Annual Report Certification Statement

As of June 16, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Ethylbenzene, Toluene, Methanol, Xylene (mixed isomers), Zinc (and its compounds), Formaldehyde} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Les Bogar, Plant Manager

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Facility information

NPRI ID number:	3893		
MOE ID number:	6238		
Owner and Operator:	General Motors of Canada Limited		
Facility Name & Address:	Oshawa Car Assembly Plant 700 Park Road South Oshawa, ON L1J 1N3	Mailing Address:	1908 Colonel Sam Drive Oshawa, ON L1H 8P7 Mail Code: CA1-045-002
Full-time employee equivalents:	4444		
NAICS Codes:	33 3361 336110		
Public Contact for this Report:	Laura Malyjasiak Sr. Environmental Analyst Corporate Affairs 905-644-6185		
Spatial Coordinates for Facility:	671165 m E 4858069 m N		
Canadian parent company:	NA		

Substances used or created at the facility requiring plans:

Substance Name	CAS Number	Primary Use in the facility	Use (tonnes)	Created (tonnes)	Release (tonnes)	Disposal (tonnes)	Off-site Recycling (tonnes)	Contained in Product (tonnes)	Comparison to Quantifications from Previous Year	Explanation for changes in Quantifications	Objectives and Targets of Substance Reduction Plan	Summary of Plan Progress or Additional Actions	Description of Amendments to Plan
Toluene	108-88-3	Toluene is a solvent used in paint formulations and for paint shop cleaner formulations. Solvent use is common to all vehicle painting processes.	100 - 1000	N/A	4.723	N/A	78.16	N/A	Not requred for 2010 reporting year.				
Hydrochloric Acid	7647-01-0	Hydrochloric acid is used in the wastewater treatment process and is neutralized prior to discharge to the municipal treatment system. Hydrochloric acid is also created as a by-product of coal combustion.	10 - 100	10 - 100	12.538	N/A	N/A	N/A	Not requred for 2010 reporting year.				
Methanol	67-56-1	Methanol is the primary ingredient in windshield washer fluid. It is required for its cleaning properties and low freezing point to allow for winter use.	100 - 1000	N/A	0.297	N/A	0.404	100 - 1000	Not requred for 2010 reporting year.				
Xylene (mixed isomers)	NA 20	Xylenes are solvents used in paint formulations and found in trace amounts in automatic transmission fluid. Solvent use is common to all vehicle painting processes.	100 - 1000	N/A	15.529	N/A	102.059	N/A	Not requred for 2010 reporting year.				
Zinc (and its compounds)	NA 21	Zinc is a metal found primarily in vehicle sheet metal and vehicle sealers. Zinc is used in both applications for its corrosion inhibition properties and is common to all vehicles.	1000 - 10000	N/A	0.038	1.7	11.621	1000 - 10000	Not requred for 2010 reporting year.				
Formaldehyde	50-00-0	Formaldehyde is created when the melamine resin in paints is cured.	1 - 10	1 - 10	5.491	N/A	N/A	N/A	Not requred for 2010 reporting year.				

Annual Report Certification Statement

As of May 24, 2011, I certify that I have read the report(s) on the toxic substance reduction plan(s) for {Toluene, Methanol, Xylene (mixed isomers), Zinc (and its compounds), Formaldehyde} and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Daniel Hermer, Plant Manager

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