

# 2019 FCA Canada Inc. Windsor Assembly Plant

**[ANNUAL PUBLIC REPORT Rev. 1 UNDER O.  
REG. 455/09]**

# 2019 Annual Public Report Under O. Reg. 455/09 Windsor Assembly Plant

## Environmental Reporting:

The National Pollution Release Inventory (NPRI) is Canada's legislated, publically accessible inventory of releases (to air, water and land), disposals and transfer for recycling that are associated with industrial activity. Over 8,000 facilities report to the NPRI on more than 300 listed substances. FCA Canada Inc. has been reporting in accordance with federal NPRI regulations since its inception in 1992.

O. Reg. 455/09 is a regulation promulgated in Ontario in 2009 and applies specifically to facilities and products made in Ontario.

Regulation 455 requires facilities to report on the use and creation of substances of concern. Currently the substances of concern under Ontario regulation are identical to the NPRI list. In addition to substance use and creation, NPRI releases, disposals and transfers 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 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.

# 2019 Annual Public Report Under O. Reg. 455/09

## Windsor Assembly Plant

Ontario Regulation 455/09, Section 27  
Public Report for Windsor Assembly Plant  
Date: 7/29/2020

### 1.0 Facility Identification and Information

NPRI Identification Number	3476
Ontario Regulation 127/01 ID:	6930
Name of Parent Company/Owner/Operator: Address:	FCA Canada Inc. 1 Riverside Drive West Windsor ON N9A 4H6
Percent Ownership:	100%
Facility Name: Address:	Windsor Assembly Plant 2199 Chrysler Center Windsor, ON N9A 4H6
Number of Employees:	5400
NAICS Code:	336110
Public Contact: Title: Telephone Number:	Josh Orentlicher EHS Lead, Canadian Operations 416-805-8227
Facility Location: Latitude: Longitude:	 43.3 -82.9881

# 2019 Annual Public Report Under O. Reg. 455/09

## Windsor Assembly Plant

ONTARIO REGULATION 455/09

### **Certification Statement**

### **Annual Report Certification Statement**

Facility: Windsor Assembly Plant

Name: Jon Desjardins

Position: Plant Manager

Signature: /s/ Jon Desjardins

As of July 29, 2020 I certify that I have read the reports on the toxic substance inventories for:

- Ethylbenzene (100-41-4)
- Methylene-bis Phenylisocyanate (101-68-8)
- Ethylene Glycol (107-21-1)
- Methyl Isobutyl Ketone (108-10-1)
- Nitrogen Oxides (expressed as NO<sub>2</sub>) (11104-93-1)
- Xylene (all isomers) (1330-20-7)
- Carbon Monoxide (630-08-0)
- Methanol (67-56-1)
- Isopropyl Alcohol (67-63-0)
- Sodium Nitrite (7632-00-0)
- Sulphuric Acid (7664-93-9)
- 1,2,4-Trimethylbenzene (95-63-6)
- Manganese (and its compounds) (NA-09)
- Nickel (and its compounds) (NA-11)
- Zinc (and its compounds) (NA-14)
- Nitrate Ion in solution at pH  $\geq 6.0$  (NA-17)

# 2019 Annual Public Report Under O. Reg. 455/09 Windsor Assembly Plant

ONTARIO REGULATION 455/09

## **Certification Statement**

### **Annual Report Certification Statement (cont'd)**

- Phosphorus (Total) (NA-22)
- PM 10 – Particulate Matter  $\leq 10$  microns (NA-M09)
- PM 2.5 – Particulate Matter  $\leq 2.5$  microns (NA-M10)
- Volatile Organic Compounds (VOCs) (NA-M16)\*
- i-Butyl Alcohol (78-83-1)
- Nitric Acid (7697-37-2)
- Solvent Naphtha Medium Aliphatic (64742-88-7)
- Light Aromatic Solvent Naphtha (64742-95-6)
- Heavy Alkylate Naphtha (64741-65-7)
- Hydrotreated Heavy Naphtha (64742-48-9)
- Hydrotreated Light Distillate (64742-47-8)

\*Due to reporting system limitations, for the 2019 annual report the TRA Substance List may include new Volatile Organic Compounds (VOCs) and/or Dioxins and Furans congeners reported to NPRI only.

# 2019 Annual Public Report Under O. Reg. 455/09

## Windsor Assembly Plant

*\*\*CAS arranged in numeric order*

CAS No.	Chemical Name	Usage			Created			Contained in Product			Releases			Disposed			Transfers			Comment Text
		Used Current Year 2019	Used Change in Tonnes	Used % Change from	Used Current Year	Used Change in Tonnes	Used % Change from	Used Current Year 2019	Used Change in Tonnes	Used % Change from	Used Current Year	Used Change in Tonnes	Used % Change from	Used Current Year	Used Change in Tonnes	Used % Change from	Used Current Year	Used Change in Tonnes	Used % Change from	
100-41-4	Ethylbenzene	>10 to 100	-0.43	-3.63	0	0.00	0.00	0	0	0	0.50	0.83	-39.76	1.00	0.41	143.18	6.61	4.51	46.60	Decrease in vehicle production levels.
101-66-8	4,4'-Methylenediphenyldiisocyanate	>10 to 100	-5.19	-20.32	0	0.00	0.00	>1 to 10	-3.37	-41.8	12.00	0.0012	393,900.00	2.68	1.78	50.90	142.07	0.00	N/A	Plant has adopted a new chemical accounting software which provides for a more detailed assessment of chemical fate and transport throughout the production cycle.
107-21-1	Ethylene Glycol	>1000 to 10000	-336.06	-17.48	0	0.00	0.00	>1000 to 10000	-342.83	-17.84	1.74	0.03	5,056.52	0.17	0.00	N/A	4.33	N/A	N/A	Plant has adopted a new chemical accounting software which provides for a more detailed assessment of chemical fate and transport throughout the production cycle.
108-10-1	Methyl Isobutyl Ketone	>10 to 100	-5.19	-17.53	0	0.00	0.00	0	0.00	0	1.96	3.15	-37.84	1.82	1.17	56.44	4.69	3.88	20.79	Decrease in vehicle production levels.
1104-93-1	Nitrogen Oxides (as NO2)	0	0.00	0.00	>10 to 100	-7.17	-11.82	0	0.00	0	53.55	60.72	-11.82	N/A	N/A	N/A	N/A	N/A	N/A	Decrease in vehicle production levels.
1330-20-7	Xylenes (all isomers)	>10 to 100	-2.10	-4.23	0	0.00	0.00	0	0.00	0	3.02	4.72	-35.93	4.17	1.75	138.04	26.43	18.05	46.42	Decrease in vehicle production levels.
630-08-0	Carbon Monoxide	0	0.00	0.00	>10 to 100	-6.03	-11.82	0	0.00	0	44.38	51.01	-11.82	N/A	N/A	N/A	N/A	N/A	N/A	Decrease in vehicle production levels.
64741-65-7	Heavy Alkylate Naphtha	>10 to 100	-8.69	-26.17	0	0.00	0.00	0	0	0	13.68	19.38	-29.42	2.14	1.79	19.30	0.30	0.19	55.95	Decrease in vehicle production levels.
64742-47-8	Hydrotreated Light Distillate	>1 to 10	-1.31	-25.80	0	0.00	0.00	0.88	1.01	-12.97	2.62	3.38	-34.06	0.32	0.17	92.25	0.00	0	N/A	Decrease in vehicle production levels.
64742-48-9	Hydrotreated Heavy Naphtha	>10 to 100	17.39	-1.47	0	0.00	0.00	0	0	0	3.35	1.55	115.71	3.70	1.52	142.85	0.24	0	N/A	Material sent for off-site transfer (energy recovery) or hazardous waste landfill disposal. Changing customer vehicle colour due to market demands.
64742-88-7	Solvent Naphtha Medium Aliphatic	>1 to 10	-1.26	-31.60	0	0.00	0.00	0	0	0	2.50	3.87	-35.48	0.24	0.13	85.00	0.00	0	N/A	Decrease in vehicle production levels.
64742-95-6	Light Aromatic Solvent Naphtha	>10 to 100	22.56	-3.60	0	0.00	0.00	0	0	0	0.72	1.33	-45.48	1.97	0.81	142.71	13.21	9.02	46.50	Decrease in vehicle production levels. Changing customer vehicle colour due to market demands.
67-56-1	Methanol	>100 to 1000	-194.03	-50.36	0	0.00	0.00	>100 to 1000	-193.60	-51.12	0.58	0.90	-36.17	0.13	0.03	52.17	0.45	0.31	46.59	Decrease in vehicle production levels.
67-63-0	Isopropyl Alcohol	>1 to 10	-3.09	-25.63	0	0.00	0.00	0	0.00	0	1.31	4.56	-71.20	0.79	0.41	94.34	4.41	3.01	46.77	Decrease in vehicle production levels.
7632-00-0	Sodium Nitrite	>10 to 100	-8.85	-28.27	0	0.00	0.00	>10 to 100	-10.17	-33.3	0.22	0.20	14.19	1.96	1.10	78.50	N/A	N/A	N/A	Material reformulation and vehicle colours changes.
7664-33-9	Sulphuric Acid	>10 to 100	3.15	14.26	0	0.00	0.00	>10 to 100	3.15	14.26	0.03	0.02	14.12	N/A	N/A	N/A	N/A	N/A	N/A	Increased cleaning products used.
7637-34-2	Nitric Acid	>10 to 100	-6.11	-30.75	0	0.00	0.00	>10 to 100	-2.15	-43.1	0.01	0.02	-41.53	1.09	0.43	153.76	N/A	N/A	N/A	Decrease in vehicle production levels.
78-83-1	i-Butyl Alcohol	>10 to 100	-3.04	-15.96	0	0.00	0.00	0	0	0	1.26	1.28	-1.82	1.55	0.93	67.00	2.39	2.40	24.84	No significant change (i.e. <10%).
95-63-6	1,2,4-Trimethylbenzene	>10 to 100	-0.56	-3.61	0	0.00	0.00	0	0.00	0	0.48	0.89	-45.66	1.31	0.54	143	8.81	6.01	46.49	Decrease in vehicle production levels. Changing customer vehicle colour due to market demands.
NA-09	Manganese (and its compounds)	>10 to 100	2.82	22.79	0	0.00	0.00	>10 to 100	3.23	31.27	0.20	0.23	-11.79	1.33	2.04	-35.00	0.00	0.00	N/A	Decrease in vehicle production levels. Changing customer vehicle colour due to market demands.
NA-11	Nickel (and its compounds)	>1 to 10	-3.06	-24.39	0	0.00	0.00	>1 to 10	-2.60	-24.1	1.12	1.28	-11.82	0.80	1.47	-45.41	0.00	0.00	N/A	Decrease in vehicle production levels.
NA-14	Zinc (and its compounds)	>10 to 100	12.37	33.11	0	0.00	0.00	>10 to 100	44.61	36.33	15.53	17.61	-11.82	6.99	6.44	8.56	0.21	0.00	N/A	Decrease in vehicle production levels.
NA-16	Volatile Organic Compounds	>1000 to 10000	-1,278,336.72	-31.30	>1 to 10	0.00	0.00	>100 to 1000	-631.11	-24.70	143.82	52.71	172.86	0.00	0.00	N/A	2.16	2.85	-24.27	Plant has adopted a new chemical accounting software which provides for a more detailed assessment of chemical fate and transport throughout the production cycle. New ERA report was used to gather the data for amendments.
NA-17	Nitrate Ion in solution at pH >=6.0	>10 to 100	10.62	-24.31	0	0.00	-100.00	>1 to 10	-2.37	-22.87	0.01	0.065	-82.39	0.96	0.47	102.62	N/A	N/A	N/A	Decrease in vehicle production levels.
NA-22	Phosphorus (total)	>100 to 1000	-24.30	-19.25	0	0	0	>10 to 100	-28.38	-23.70	0.03	0.005	651.11	0	0	N/A	N/A	N/A	N/A	Plant has adopted a new chemical accounting software which provides for a more detailed assessment of chemical fate and transport throughout the production cycle. New ERA report was used to gather the data for amendments. + WTP sludge Wet Release
NA-M03	PM10 - Particulate Matter <= 10 microns	0	0.00	0.00	>1 to 10	-13.41	-0.37	0	0	0	13.41	13.61	-1.46	N/A	N/A	N/A	N/A	N/A	N/A	No significant change (i.e. <10%).
NA-M10	PM2.5 - Particulate Matter <= 2.5 microns	0	0.00	0.00	>1 to 10	-7.13	-0.58	0	0	0	7.13	7.48	-4.62	N/A	N/A	N/A	N/A	N/A	N/A	No significant change (i.e. <10%).