



## Toxics Reduction Act – Public Summary Report – 2017 Reporting Year

### Ford Motor Company – Oakville Assembly Complex

#### A. FACILITY INFORMATION

The Oakville Assembly Complex operates as an automotive assembly plant for the production of the Ford Edge, Ford Flex, Lincoln MKX and Lincoln MKT. The main facility processes consist of body building, painting and assembly.

<b>Address</b>	The Canadian Road Oakville, Ontario L6J 5C9
<b>Spatial Coordinates</b>	Zone 17, 607468 m E, 4816131 m N
<b>NPRI/MOECC IDs</b>	NPRI = 3419 MOECC = 6763
<b>No. of Employees</b>	4,859
<b>Primary Operation</b>	Automobile Assembly Plant
<b>NAICS Code(s)</b>	33 – Manufacturing 3361 – Motor Vehicle Manufacturing 336110 - Automobile and Light Duty Motor Vehicle Manufacturing
<b>Facility Contact</b>	Mr. Robert Niemi Ford Motor Company Environmental Quality Office 290 Town Center Drive Dearborn, Michigan 48123 Phone: (313) 206-8034 Email: <a href="mailto:rniemi1@ford.com">rniemi1@ford.com</a>
<b>Parent Company</b>	Ford Motor Company of Canada, Limited The Canadian Road Oakville, Ontario L6J 5E4



## B. TOXIC SUBSTANCE ACCOUNTING

Substances Reported	CAS#	Primary Use/Source
<b><i>NPRI Part 1 Substances</i></b>		
Di-2-ethylhexyl phthalate	117-81-7	Sealers
Ethylbenzene	100-41-4	Solvents
Ethylene glycol	107-21-1	Radiator coolant
Ethylene glycol monobutyl ether	111-76-2	Solvents / E-coat
Isopropanol	67-63-0	Paints / solvents
Methyl alcohol	67-56-1	Windshield wash solution
Methyl isobutyl ketone	108-10-1	Solvents / E-coat
Nitric acid	7697-37-2	Phosphate coating
n-Butyl alcohol	71-36-3	Solvents
Sodium nitrite	7632-00-0	Phosphate coating/radiator coolant
Sulphuric acid	7664-93-9	Wastewater treatment
1,2,4-Trimethylbenzene	95-63-6	Paints / solvents
Xylene	1330-20-7	Paints / solvents
Zinc (and its compounds)	n/a	Vehicle body / sealers
<b><i>NPRI Part 4 Substances</i></b>		
NO <sub>x</sub>	11104-93-1	Fuel combustion
CO	630-08-0	Fuel combustion
PM <sub>10</sub>	n/a	Spray coating / fuel combustion
PM <sub>2.5</sub>	n/a	Spray coating / fuel combustion
<b><i>NPRI Part 5 Substances</i></b>		
Butane	n/a	Fuel combustion
Ethylene glycol monobutyl ether acetate	112-07-2	Paints / solvents
Heavy aromatic solvent naphtha	64742-94-5	Paints / solvents



<b>Substances Reported</b>	<b>CAS#</b>	<b>Primary Use/Source</b>
Hexane	n/a	Fuel combustion
Hydrotreated heavy naphtha	64742-48-9	Paints / solvents
Hydrotreated light distillate	64742-47-8	Paints / solvents
Light aromatic solvent naphtha	64742-95-6	Paints / solvents
Methyl ethyl ketone	78-93-3	Purge solvents
n-Butyl acetate	123-86-4	Paints / solvents
n-Heptane	142-82-5	Paints / solvents
Pentane	n/a	Fuel combustion
Propane	74-98-6	Fuel combustion
Toluene	108-88-3	Paints / solvents
Trimethylbenzene	25551-13-7	Paints / solvents
<b><i>O.Reg. 127/01 Substances</i></b>		
None		



## Accounting Details

Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b><i>Di-2-ethylhexyl phthalate</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-24%	Decreased production and usage of sealer products.
Created	0	n/a	n/a	n/a	
Contained in Product	0	n/a	n/a	n/a	
Released to Air	0.939	0.717	(-)0.222	-24%	
Released to Water	n/a	n/a	n/a	n/a	
Transfer for Disposal	0.237	0.181	(-)0.056	-24%	
Transfer for Recycle	n/a	n/a	n/a	n/a	
<b><i>Ethylbenzene</i></b>					
Used	>10 to 100	>10 to 100	(-)>10 to 100	-20%	Decreased production and usage of products containing ethylbenzene.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	25.84	19.75	(-)6.086	-24%	
Released to Water	0	0	n/a	n/a	Decrease in disposal amount due to assumed scrapage rate and decreased usage of Axalta spray coatings containing ethylbenzene.
Transfer for Disposal	0.009	0.002	(-)0.007	-78%	
Transfer for Recycle	71.20	58.22	(-)12.99	-18%	Decreased quantity of ethylbenzene recovered in the spent purge solvent.
<b><i>Ethylene glycol</i></b>					
Used	>1,000 to 10,000	>1,000 to 10,000	(-)>10 to 100	-8%	Decreased production and usage of engine coolant.
Created	0	0	n/a	n/a	
Contained in Product	>1,000 to 10,000	>1,000 to 10,000	(-)>10 to 100	-8%	
Released to Air	0	0	n/a	n/a	No significant change in air releases.
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0.119	0.109	(-)0.009	-8%	Decreased production and usage of engine coolant.
Transfer for Recycle	0	0	n/a	n/a	No change in off-site recycles.



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b><i>Ethylene glycol monobutyl ether</i></b>					
Used	>10 to 100	>10 to 100	(-)>0 to 1	0%	Decreased usage of products containing EGME.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	8.014	7.784	(-)0.230	-3%	
Released to Water	0	0	n/a	n/a	
Transfer for Disposed	0.140	0.135	(-)0.005	-4%	Decreased usage of general use products containing EGME.
Transfer for Recycle	0	0	n/a	n/a	No change in off-site recycles.
<b><i>Isopropanol</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-3%	Decrease in production and usage of products containing isopropyl alcohol.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	31.11	29.50	(-)1.607	-5%	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0.607	0.607	0	0%	No significant change in off-site disposals.
Transfer for Recycle	3.341	3.624	0.284	8%	Increase in quantity of isopropyl alcohol recovered in the spent purge solvent.
<b><i>Methyl alcohol</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>1 to 10	-1%	Decrease in quantity of methanol recovered in the spent purge solvent, results in an increase in air emission due to mass balance calculations.
Created	0	0	n/a	n/a	
Contained in Product	>100 to 1,000	>100 to 1,000	(-)>1 to 10	-1%	
Released to Air	1.392	1.991	0.599	43%	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0.060	0.070	0.010	16%	Decrease in quantity of methanol recovered in the spent purge solvent, results in an increase disposal due to assumed scrappage rate.



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Transfer for Recycle	4.857	3.994	(-)0.862	-18%	Decrease in quantity of methanol recovered in the spent purge solvent.
<b><i>Methyl isobutyl ketone</i></b>					
Used	>10 to 100	>10 to 100	(-)>10 to 100	-19%	Decreased production and usage of purge solvents containing MIBK.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	18.37	12.52	(-)5.849	-32%	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0	0	n/a	n/a	No change in off-site disposals.
Transfer for Recycle	36.63	31.68	(-)4.953	-14%	Decreased quantity of MIBK recovered in the spent purge solvent.
<b><i>Nitric acid</i></b>					
Used	>10 to 100	>10 to 100	(-)>0 to 1	-1%	Minor decrease in the usage of nitric acid in phosphate coat. No change in reported release quantities.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	0	0	n/a	n/a	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0	0	n/a	n/a	
Transfer for Recycle	0	0	n/a	n/a	
<b><i>n-Butyl alcohol</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	-10%	Decrease in production and usage of products containing n-butyl alcohol.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	129.4	114.2	(-)15.21	-12%	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	2.803	2.638	(-)0.166	-6%	Decreased production and usage of spray coatings containing n-butyl alcohol resulted in an decreased disposal.
Transfer for Recycle	48.89	46.09	(-)2.792	-6%	Decreased quantity of n-butyl alcohol recovered in the spent purge solvent.



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b><i>Sodium nitrite</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-6%	
Created	0	0	n/a	n/a	
Contained in Product	>1 to 10	>0 to 1	(-)>1 to 10	-95%	
Released to Air	n/a	n/a	n/a	n/a	No significant change in air releases.
Released to Water	9.420	10.32	0.897	10%	Increased amount of sodium nitrite used in phosphate coat and released to water.
Transfer for Disposal	0.003	0.004	0.001	21%	Small increase in general use products.
Transfer for Recycle	n/a	n/a	n/a	n/a	No significant change in off-site recycles.
<b><i>Sulphuric acid</i></b>					
Used	>100 to 1000	>10 to 100	(-)>10 to 100	-76%	Significant decrease in sulphuric acid usage. However, the acid is neutralized on use, resulting in no change in air releases, off-site disposals and off-site recycles.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	0	0	n/a	n/a	
Released to Water	0	0	n/a	n/a	
Transfer for Disposal	0	0	n/a	n/a	
Transfer for Recycle	0	0	n/a	n/a	
<b><i>1,2,4-Trimethylbenzene</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	-5%	Decreased production and usage of purge solvents containing 1,2,4-Trimethylbenzene.
Created	n/a	n/a	n/a	n/a	
Contained in Product	n/a	n/a	n/a	n/a	
Released to Air	139.2	137.6	(-)1.598	-1%	Decreased production and usage of purge solvents containing 1,2,4-Trimethylbenzene, and a decrease in 1,2,4-TMB recovered in the spent purge solvent.
Released to Water	n/a	n/a	n/a	n/a	
Transfer for Disposal	2.595	2.754	0.159	6%	Decrease in quantity of 1,2,4-TMB recovered in the spent purge solvent, results in an increase disposal due to assumed scrappage rate.



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Transfer for Recycle	101.7	87.78	(-)13.93	-14%	Decreased quantity of 1,2,4-TMB recovered in the spent purge solvent.
<b><i>Xylene</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	-19%	Decreased production and usage of products containing xylene.
Created	0	0	n/a	n/a	
Contained in Product	0	0	n/a	n/a	
Released to Air	102.7	81.07	(-)21.66	-21%	
Released to Water	n/a	n/a	n/a	n/a	
Transfer for Disposal	0.127	0.103	(-)0.025	-19%	Decreased production and usage of products containing xylene.
Transfer for Recycle	304.8	249.2	(-)55.52	-18%	Decrease quantity of xylene recovered in the spent purge solvent.
<b><i>Zinc (and its compounds)</i></b>					
Used	>1,000 to 10,000	>1,000 to 10,000	(-)>100 to 1000	-7%	Decreased production and usage of products containing zinc in phosphate coating and sealer departments.
Created	0	0	n/a	n/a	
Contained in Product	>1,000 to 10,000	>1,000 to 10,000	(-)>100 to 1000	-7%	
Released to Air	0.0002	0.0002	0.0000	0%	No significant change in air release.
Released to Water	0.202	0.206	0.004	2%	
Transfer for Disposal	0.388	0.306	(-)0.082	-21%	Decreased production and usage of products containing zinc in phosphate coating and sealer departments resulted in a decreased disposal.
Transfer for Recycle	9.422	9.184	(-)0.238	-3%	Decrease in quantity of scrap metal recycled.
<b><i>NO<sub>x</sub></i></b>					
Used	0	0	n/a	n/a	
Created	>10 to 100	>10 to 100	(-)4.806	-6%	
Released to Air	69.73	66.58	(-)3.157	-5%	No significant change in air releases.





Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b>CO</b>					
Used	0	0	n/a	n/a	
Created	>10 to 100	>10 to 100	60.724	-6%	
Released to Air	60.44	57.75	(-)2.683	-4%	No significant change in air releases.
<b>PM<sub>10</sub></b>					
Used	0	0	n/a	n/a	Increased PM release due to spray coating activities. Reduced quantity of purge solvent recycled and lower solids content in spent purge solvent resulted in less solids removed and therefore by mass balance calculation, an increase of particulate to air from spray coating.
Created	>100 to 1,000	>100 to 1,000	10,911	9%	
Released to Air	13.96	14.99	1.033	7%	
<b>PM<sub>2.5</sub></b>					
Used	0	0	n/a	n/a	Increased PM release due to spray coating activities. Reduced quantity of purge solvent recycled and lower solids content in spent purge solvent resulted in less solids removed and therefore by mass balance calculation, an increase of particulate to air from spray coating.
Created	>10 to 100	>10 to 100	2.046	8%	
Released to Air	3.887	4.035	0.148	4%	
<b>Butane</b>					
Used	0	0	n/a	n/a	Minor decrease in natural gas consumption.
Created	>1 to 10	>1 to 10	(-)0.138	-9%	
Released to Air	1.445	1.384	(-)0.061	-4%	
<b>Ethylene glycol monobutyl ether acetate</b>					
Used	>10 to 100	>10 to 100	(-)>10 to 100	-52%	Decreased production and usage of spray coatings, purge solvents and general use products containing EGMEA.
Created	0	0	n/a	n/a	
Released to Air	5.158	2.907	(-)2.252	-44%	
<b>Heavy aromatic solvent naphtha</b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-9%	Decreased production and usage of products containing HASN.
Created	0	>0 to 1	n/a		
Released to Air	9.983	9.095	(-)0.888	-9%	



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b><i>Hexane</i></b>					
Used	0	0	n/a	n/a	Minor decrease in natural gas consumption.
Created	>1 to 10	>1 to 10	(-)1.304	-9%	
Released to Air	1.238	1.186	(-)1.237	-4%	
<b><i>Hydrotreated heavy naphtha</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-10%	Decreased production and usage of products containing HHN.
Created	0	0	n/a	n/a	
Released to Air	6.647	6.173	(-)0.474	-7%	
<b><i>Hydrotreated light distillate</i></b>					
Used	n/a	>1 to 10	n/a	n/a	Increased usage of spray coatings, purge solvents, general use products and WWTP chemicals containing HLD in 2017. Air release rose above the 1-tonne reporting threshold.
Created	n/a	n/a	n/a	n/a	
Released to Air	n/a	1.403	n/a	n/a	
<b><i>Light aromatic solvent naphtha</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	-7%	Increased usage of spray coatings containing LASN and decreased quantity of LASN in recycled purge solvent.
Created	0	0	n/a	n/a	
Released to Air	45.84	49.78	3.943	9%	
<b><i>Methyl ethyl ketone</i></b>					
Used	>10 to 100	>1 to 10	(-)>0 to 1	-23%	Decreased production and usage of products containing MEK.
Created	0	0	n/a	n/a	
Released to Air	1.491	1.134	(-)0.357	-24%	
<b><i>n-Butyl acetate</i></b>					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	-13%	Decreased production and usage of products containing n-butyl acetate.
Created	0	0	n/a	n/a	
Released to Air	76.38	56.05	(-)20.33	-27%	
<b><i>n-Heptane</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-5%	Decreased production and usage of products containing n-heptane.
Created	0	0	n/a	n/a	
Released to Air	13.70	13.08	(-)0.616	-4%	



Substance/Category	Accounting Quantities				Reason for Change
	2016	2017	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
<b><i>Pentane</i></b>					
Used	0	0	n/a	n/a	Minor decrease in natural gas consumption.
Created	>1 to 10	>1 to 10	(-)1.883	-9%	
Released to Air	1.789	1.714	(-)1.787	-4%	
<b><i>Propane</i></b>					
Used	0	0	n/a	n/a	Minor decrease in natural gas consumption.
Created	>1 to 10	>1 to 10	(-)1.159	-9%	
Released to Air	1.101	1.054	(-)1.100	-4%	
<b><i>Toluene</i></b>					
Used	>10 to 100	>1 to 10	(-)>1 to 10	-31%	Decreased production and usage of products containing toluene.
Created	0	0	n/a	n/a	
Released to Air	2.031	1.230	(-)0.801	-39%	
<b><i>Trimethylbenzene</i></b>					
Used	>10 to 100	>10 to 100	(-)>1 to 10	-3%	Decreased production and usage of spray coatings and purge solvents containing TMB.
Created	0	0	n/a	n/a	
Released to Air	50.36	48.79	(-)1.565	-3%	



## C. TOXIC SUBSTANCE REDUCTION PLANNING

### Objectives & Targets

Substance	Objectives & Targets	Reduction Option Progress
Asbestos	n/a – no options identified	Asbestos was not reportable for 2015, 2016 and 2017 reporting years.
Di-2-ethylhexyl phthalate	n/a – no options identified	
Ethylbenzene	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Ethylene glycol	n/a – no options identified	
Ethylene glycol monobutyl ether	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Isobutyl alcohol	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed. Isobutyl alcohol was not reportable for 2016 and 2017 reporting years.
Isopropanol	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Manganese (and its compounds)	n/a – no options identified	Manganese (and its compounds) was not reportable for 2015, 2016 and 2017 reporting years.
Methyl alcohol	n/a – no options identified	
Methyl isobutyl ketone	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Nitric acid	n/a – no options identified	
n-Butyl alcohol	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> </ul>	The planned steps were completed.



Substance	Objectives & Targets	Reduction Option Progress
	<ul style="list-style-type: none"> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	
Sodium nitrite	n/a – no options identified	
Sulphuric acid	n/a – no options identified	
Toluene	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed. Toluene was not reportable as a Part 1 substance for 2016 and 2017 reporting years. Reportable as a Part 5 VOC.
1,2,4-Trimethylbenzene	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Xylene	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Zinc (and its compounds)	n/a – no options identified	
NO <sub>x</sub>	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
CO	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
PM <sub>10</sub>	- Reduce the use of spray coatings.	Continued to increase block size.
PM <sub>2.5</sub>	- Reduce the use of spray coatings.	Continued to increase block size.
Butane	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
Diethylene glycol monobutyl ether	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed. Diethylene glycol monobutyl ether was not reportable for 2016 and 2017 reporting years.
Ethylene glycol monobutyl ether	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> </ul>	The planned steps were completed.



Substance	Objectives & Targets	Reduction Option Progress
acetate	<ul style="list-style-type: none"> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	
Heavy aromatic solvent naphtha	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Hexane	<ul style="list-style-type: none"> <li>- Reduce the use of natural gas in process and heating combustion equipment.</li> </ul>	Continued to implement the steps in the plan.
Hydrotreated heavy naphtha	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Hydrotreated light distillate	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Light aromatic solvent naphtha	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Methyl ethyl ketone	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
n-Butyl acetate	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
n-Heptane	<ul style="list-style-type: none"> <li>- Continue to transition to low VOC booth cleaners.</li> <li>- Continue to increase block size.</li> <li>- Continue to implement "lockout" practice on all valves in the paint booths.</li> </ul>	The planned steps were completed.
Pentane	<ul style="list-style-type: none"> <li>- Reduce the use of natural gas in process and heating combustion equipment.</li> </ul>	Continued to implement the steps in the plan.



Substance	Objectives & Targets	Reduction Option Progress
Propane	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
Solvent naphtha medium aliphatic	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed. Solvent naphtha medium aliphatic was not reportable for the 2017 reporting year.
Tetrahydrofuran	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed. Tetrahydrofuran releases dropped below 1,000 kg, therefore reporting was not required for 2014 through 2017 reporting years.
Trimethylbenzene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Acetone	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed. Acetone was not reportable for 2016 and 2017 reporting years.

### Annual Report Certification Statement

As of June 1, 2017, I certify that I have read the report(s) on the toxic substance reduction plan(s) for the toxic substances included above, 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.

Ron Prahin, Plant Manager

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(Digital signature on file)