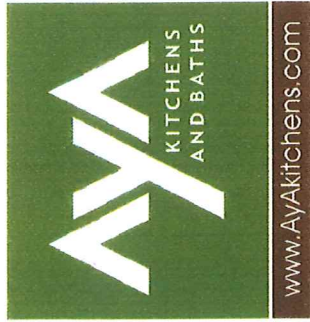


## Toxics Reduction Act - Public Summary Report - 2016 Reporting Year

### 1.0 Basic Facility Information

<b>NPRI Number</b>	247
<b>O Reg 127/01 Number</b>	11162
<b>Number of full time employee equivalents</b>	300
<b>NAICS Code (2 digit)</b>	31-33 - Manufacturing
<b>NAICS Code (4 digit)</b>	3371 - Household and institutional furniture and kitchen cabinet manufacturing
<b>NAICS Code (6 digit)</b>	337110 - Wood kitchen cabinet and counter top manufacturing
<b>UTM Coordinates</b>	17 T 614956 m E 4828988 m N
<b>Company Legal Name</b>	AyA Kitchens & Baths Ltd.
<b>Company Trade Name</b>	AyA Kitchens & Baths Ltd.
<b>Public Contact</b>	Victor dos Santos Manager, Engineering 1551 Caterpillar Road Mississauga, ON L4X 2Z6 Tel: (905) 848-1999 ext. 306 Email: <a href="mailto:vdossantos@ayakitchens.com">vdossantos@ayakitchens.com</a>

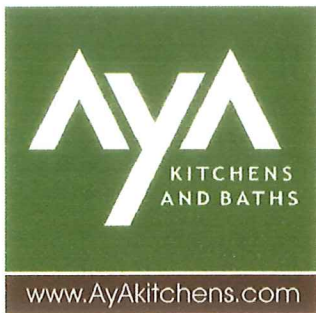


## 2.0 Toxic Substance Accounting

(tonne)	Methanol	Methyl Ethyl Ketone	Toluene	PM2.5 - Particulate Matter <= 2.5 Microns	PM10 - Particulate Matter <= 10 Microns	Volatile Organic Compounds	n-Butyl Acetate	Ethyl Acetate	Ethyl Alcohol	Isopropyl Alcohol	Methyl Isobutyl Ketone	Solvent naphtha light aliphatic	Xylene (all isomers)	Acetone
	67-56-1	78-93-3	108-88-3	NA - M10	NA - M09	NA - M16	123-86-4	141-78-6	64-17-5	67-63-0	108-10-1	64742-89-8	1330-20-7	67-64-1
MPO	> 10 to 100	> 10 to 100	> 10 to 100			> 100 to 1000	> 10 to 100	> 10 to 100	> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 10 to 100
Used	> 10 to 100	> 10 to 100	> 10 to 100			> 100 to 1000	> 10 to 100	> 10 to 100	> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 10 to 100
Created				> 1 to 10	> 1 to 10									
Air	> 1 to 10	> 1 to 10	> 10 to 100	> 1 to 10	> 1 to 10	> 100 to 1000	> 10 to 100	> 10 to 100	> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 10 to 100
Disposed	> 1 to 10	> 1 to 10	> 10 to 100			> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 0 to 1	0	> 0 to 1	> 0 to 1	> 1 to 10
Recycled	> 1 to 10	> 1 to 10	> 10 to 100			> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 0 to 1	> 0 to 1	> 1 to 10	> 1 to 10
Sewage														
Spills														
Landfill														
On Part	0	0	0			> 1 to 10	0	0	0	0	> 0 to 1	0	0	0

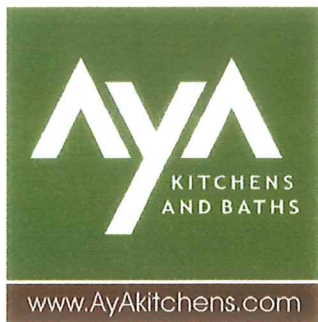
Methanol, Methyl Ethyl Ketone, Toluene, n-Butyl Acetate, Ethyl Acetate, Ethyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone, Solvent Naphtha Light Aliphatic, Xylene, and Acetone are all constituents of the paints and varnishes used to finish the cabinetry pieces or solvents used to clean equipment at the Facility. Particulate Matter is produced during the construction and assembly of cabinetry pieces at the Facility. The Facility manufactures cabinetry for use in kitchens and bathrooms.

As per the plan objectives, at the time of writing, AYA did not intend to reduce the use of Methanol, Toluene, Ethyl Alcohol, Isopropyl Alcohol, Xylene, Methyl Isobutyl Ketone, Solvent Naphtha Light Aliphatic, and Acetone, but would continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to these substances. Consequently, as of summer 2017, AYA is investigating potential reduction options (i.e., Materials or Feedstock Substitution) and hopes to implement them by winter 2017/2018. Although AYA does not intend



to further reduce the creation of Particulate Matter, they will continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to PM pollution prevention.

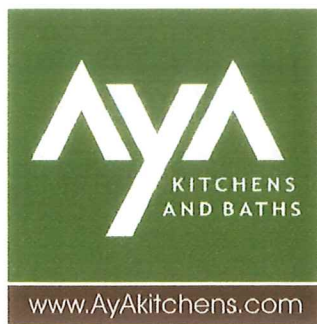
No amendments were made to the Toxic Reduction Act Plans for Methanol, Methyl Ethyl Ketone, Toluene, 2-Butoxymethanol, n-Butyl Acetate, Ethyl Acetate, Ethyl Alcohol, Isopropyl Alcohol, Xylene, Methyl Isobutyl Ketone, Solvent Naphtha Light Aliphatic, Solvent Naphtha Medium Aliphatic, Acetone and Particulate Matter (PM10 & PM2.5).



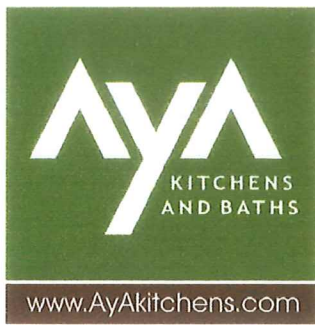
Substance	Year	Amount Used	Change
Methanol	2015	> 10 to 100	-21.19%,
	2016	> 10 to 100	-4.59 tonnes
Methyl Ethyl Ketone	2015	> 10 to 100	-13.66%,
	2016	> 10 to 100	-1.83 tonnes
Toluene	2015	> 10 to 100	-25.99%,
	2016	> 10 to 100	-21.99 tonnes
Volatile Organic Compounds	2015	> 100 to 1000	-8.75%,
	2016	> 100 to 1000	-21.63 tonnes
n-Butyl Acetate	2015	> 10 to 100	+19.84%,
	2016	> 10 to 100	+6.80 tonnes
Ethyl Acetate	2015	> 10 to 100	-23.97%,
	2016	> 10 to 100	-9.93 tonnes
Ethyl Alcohol	2015	> 10 to 100	+87.40%,
	2016	> 10 to 100	+14.77 tonnes
Isopropyl Alcohol	2015	> 1 to 10	+11.06%,
	2016	> 1 to 10	+0.51 tonnes
Methyl Isobutyl Ketone	2015	> 1 to 10	-26.90%,
	2016	> 1 to 10	-1.24 tonnes
Solvent Naphtha Light Aliphatic	2015	> 1 to 10	-11.72%,
	2016	> 1 to 10	-0.28 tonnes
Xylene (all isomers)	2015	> 10 to 100	-25.24%,
	2016	> 1 to 10	-2.61 tonnes
Acetone	2015	> 10 to 100	-29.20%,
	2016	> 10 to 100	-8.29 tonnes

Substance	Year	Amount Created	Change
Particulate Matter <= 2.5 Microns	2015	> 1 to 10	+0.44%,
	2016	> 1 to 10	0.025 tonnes
Particulate Matter <= 10 Microns	2015	> 1 to 10	+0.08%,
	2016	> 1 to 10	+0.005 tonnes

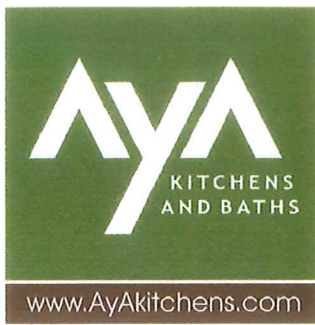




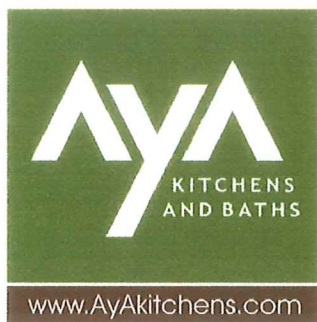
Substance	Year	Amount Released to Air	Change
Methanol	2015	> 10 to 100	-24.58%,
	2016	> 1 to 10	-2.94 tonnes
Methyl Ethyl Ketone	2015	> 1 to 10	+19.94%,
	2016	> 1 to 10	+0.65 tonnes
Toluene	2015	> 10 to 100	-42.81%,
	2016	> 10 to 100	-19.98 tonnes
Particulate Matter <= 2.5 Microns	2015	> 1 to 10	+0.44%,
	2016	> 1 to 10	0.025 tonnes
Particulate Matter <= 10 Microns	2015	> 1 to 10	+0.08%,
	2016	> 1 to 10	+0.005 tonnes
Volatile Organic Compounds	2015	> 100 to 1000	-3.69%,
	2016	> 100 to 1000	-4.62 tonnes
n-Butyl Acetate	2015	> 10 to 100	+15.99%,
	2016	> 10 to 100	+4.60 tonnes
Ethyl Acetate	2015	> 10 to 100	-12.83%,
	2016	> 10 to 100	-2.46 tonnes
Ethyl Alcohol	2015	> 1 to 10	+231.77%,
	2016	> 10 to 100	+16.34 tonnes
Isopropyl Alcohol	2015	> 1 to 10	+86.96%,
	2016	> 1 to 10	+1.40 tonnes
Methyl Isobutyl Ketone	2015	> 1 to 10	-37.63%,
	2016	> 1 to 10	-1.40 tonnes
Solvent Naphtha Light Aliphatic	2015	> 1 to 10	+13.22%,
	2016	> 1 to 10	+0.16 tonnes
Xylene (all isomers)	2015	> 1 to 10	-37.19%,
	2016	> 1 to 10	-2.25 tonnes
Acetone	2015	> 10 to 100	-37.30%,
	2016	> 10 to 100	-7.71 tonnes



Substance	Year	Amount Disposed	Change
Methanol	2015	> 1 to 10	+25.91%
	2016	> 1 to 10	+0.71 tonnes
Methyl Ethyl Ketone	2015	> 1 to 10	-32.05%
	2016	> 1 to 10	-1.17 tonnes
Toluene	2015	> 1 to 10	+26.07%
	2016	> 10 to 100	+2.08 tonnes
Volatile Organic Compounds	2015	> 10 to 100	+0.51%
	2016	> 10 to 100	+0.16 tonnes
n-Butyl Acetate	2015	> 0 to 1	+736.77%
	2016	> 1 to 10	+2.77 tonnes
Ethyl Acetate	2015	> 10 to 100	-36.62%
	2016	> 1 to 10	-4.35 tonnes
Ethyl Alcohol	2015	> 1 to 10	+165.61%
	2016	> 1 to 10	+1.71 tonnes
Isopropyl Alcohol	2015	> 0 to 1	-27.29%
	2016	> 0 to 1	-0.16 tonnes
Methyl Isobutyl Ketone	2015	0	0%
	2016	0	
Solvent Naphtha Light Aliphatic	2015	> 1 to 10	-46.15%
	2016	> 0 to 1	-0.54 tonnes
Xylene (all isomers)	2015	> 1 to 10	-46.19%
	2016	> 0 to 1	-0.73 tonnes
Acetone	2015	> 1 to 10	+15.50%
	2016	> 1 to 10	+0.29 tonnes



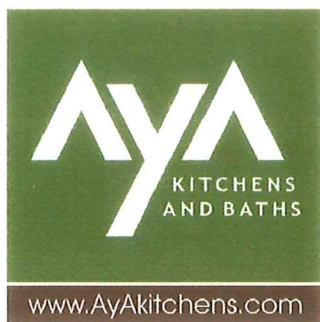
Substance	Year	Amount Recycled	Change
Methanol	2015	> 1 to 10	-33.91%,
	2016	> 1 to 10	-2.36 tonnes
Methyl Ethyl Ketone	2015	> 1 to 10	-14.64%,
	2016	> 1 to 10	-0.95 tonnes
Toluene	2015	> 10 to 100	-13.65%,
	2016	> 10 to 100	-4.09 tonnes
Volatile Organic Compounds	2015	> 10 to 100	-17.25%,
	2016	> 10 to 100	-15.10 tonnes
n-Butyl Acetate	2015	> 1 to 10	+2.47%,
	2016	> 1 to 10	+0.11 tonnes
Ethyl Acetate	2015	> 10 to 100	-30.13%,
	2016	> 1 to 10	-3.13 tonnes
Ethyl Alcohol	2015	> 1 to 10	-37.00%,
	2016	> 1 to 10	-3.26 tonnes
Isopropyl Alcohol	2015	> 1 to 10	-30.27%,
	2016	> 1 to 10	-0.73 tonnes
Methyl Isobutyl Ketone	2015	> 0 to 1	+90.57%,
	2016	> 0 to 1	+0.42 tonnes
Solvent Naphtha Light Aliphatic	2015	0	+100%
	2016	> 0 to 1	+0.74 tonnes
Xylene (all isomers)	2015	> 1 to 10	+133.80%
	2016	> 1 to 10	+2.73 tonnes
Acetone	2015	> 1 to 10	-14.72%,
	2016	> 1 to 10	-0.86 tonnes



Substance	Year	Amount Contained in Product	Change
Methanol	2015	0	0.0%,
	2016	0	0.0 tonnes
Methyl Ethyl Ketone	2015	0	0.0%,
	2016	0	0.0 tonnes
Toluene	2015	0	0.0%,
	2016	0	0.0 tonnes
Volatile Organic Compounds	2015	> 10 to 100	-64.59%,
	2016	> 1 to 10	-2.07 tonnes
n-Butyl Acetate	2015	> 0 to 1	-100%,
	2016	0	-0.69 tonnes
Ethyl Acetate	2015	0	0.0%,
	2016	0	0.0 tonnes
Ethyl Alcohol	2015	0	0.0%,
	2016	0	0.0 tonnes
Isopropyl Alcohol	2015	0	0.0%,
	2016	0	0.0 tonnes
Methyl Isobutyl Ketone	2015	> 0 to 1	-65.73%,
	2016	> 0 to 1	-0.28 tonnes
Solvent Naphtha Light Aliphatic	2015	0	+0.0%,
	2016	0	+0.0 tonnes
Xylene (all isomers)	2015	> 0 to 1	-100%
	2016	0	-0.67 tonnes
Acetone	2015	0	0.0%,
	2016	0	0.0 tonnes

Reasons for changes from previous year are due to changes in production levels, refinements to the accounting method to better reflect facility operating conditions, specifically with regards to the waste streams at the facility (i.e., better accounting of waste composition and total waste amounts).





### **3.0 Signed Certification Statement**

As of 19/09/2017, I, Dave Marcus, 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.

**Acetone (CAS RN: 67-64-1)**

**Ethanol (CAS RN: 64-17-5)**

**Ethyl Acetate (CAS RN: 171-78-6)**

**Isopropyl Alcohol (CAS RN: 67-63-0)**

**Methanol (CAS RN: 67-56-1)**

**Methyl Ethyl Ketone (CAS RN: 78-93-3)**

**Methyl Isobutyl Ketone (CAS RN: 108-10-1)**

**n-Butyl Acetate (CAS RN: 123-86-4)**

**PM10 - Particulate Matter (CAS RN: NA - M09)**

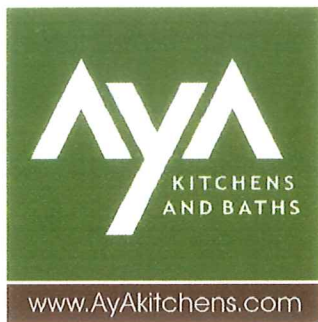
**PM2.5 - Particulate Matter (CAS RN: NA - M10)**

**Solvent Naphtha Light Aliphatic (CAS RN: 64742-89-8)**

**Toluene (CAS RN: 108-88-3)**

**Volatile Organic Compounds (CAS RN: NA-M16)**

**Xylene (all isomers) (CAS RN: 1330-20-7)**



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.

Dave Marcus, President