



Toxics Reduction Act - Public Summary Report - 2015 Reporting Year

1.0 Basic Facility Information

NPRI Number	247
O Reg 127/01 Number	11162
Number of full time employee equivalents	300
NAICS Code (2 digit)	31-33 - Manufacturing
NAICS Code (4 digit)	3371 - Household and institutional furniture and kitchen cabinet manufacturing
NAICS Code (6 digit)	337110 - Wood kitchen cabinet and counter top manufacturing
UTM Coordinates	17 T 614956 m E 4828988 m N
Company Legal Name	Aya Kitchens & Baths Ltd.
Company Trade Name	Aya Kitchens & Baths Ltd.
Public Contact	Noel Santos VP, Manufacturing & Operations 1551 Caterpillar Road Mississauga, ON L4X 2Z6 Tel: (905) 848-1999 ext. 230 Fax: (905) 848-9714 Email: nsantos@ayakitchens.com



2.0 Toxic Substance Accounting

(tonne)	Methanol	Methyl Ethyl Ketone	Toluene	Xylene (all isomers)	PM2.5 - Particulate Matter <= 2.5 Microns	PM10 - Particulate Matter <= 10 Microns	Volatile Organic Compounds	2- Butoxyethanol	n-Butyl Acetate	Ethyl Acetate	Ethyl Alcohol	Isopropyl Alcohol	Methyl Isobutyl Ketone	Solvent naphtha light aliphatic	Solvent naphtha medium aliphatic	Acetone
	67-56-1	78-93-3	108-88-3	1330-20-7	NA - M10	NA - M09	NA - M16	111-76-2	123-86-4	141-78-6	64-17-5	67-63-0	108-10-1	64742-89-8	64742-88-7	67-64-1
MPO	> 10 to 100	> 10 to 100	> 10 to 100	> 10 to 100			> 100 to 1000	> 1 to 10	> 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	> 10 to 100			> 100 to 1000	> 1 to 10	> 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	> 10 to 100	> 1 to 10	> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 100 to 1000	> 1 to 10	> 10 to 100	> 10 to 100	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10	> 10 to 100
Disposed	> 1 to 10	> 1 to 10	> 1 to 10	> 1 to 10			> 10 to 100	> 0 to 1	> 0 to 1	> 10 to 100	> 1 to 10	> 0 to 1	0	> 1 to 10	0	> 1 to 10
Recycled	> 1 to 10	> 1 to 10	> 10 to 100	> 1 to 10			> 10 to 100	0	> 1 to 10	> 10 to 100	> 1 to 10	> 1 to 10	> 0 to 1	0	0	> 1 to 10
Sewage																
Spills																
Landfill																
On Part	0	0	0	> 0 to 1			> 1 to 10	> 0 to 1	> 0 to 1	0	0	0	> 0 to 1	0	> 0 to 1	0

Methanol, Methyl Ethyl Ketone, Toluene, Xylene, 2-Butoxyethanol, n-Butyl Acetate, Ethyl Acetate, Ethyl Alcohol, Isopropyl Alcohol, Methyl Isobutyl Ketone, Solvent Naphtha Light Aliphatic, Solvent Naphtha Medium Aliphatic, 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.

Although Aya does not intend to reduce the use of Methanol, Toluene, Ethyl Alcohol, Isopropyl Alcohol, Xylene, Methyl Isobutyl Ketone, Solvent Naphtha Light Aliphatic, and Acetone, they will continue to conduct further research to identify new reduction options and to keep up with industry standards with regards to these substances. 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.

See Section 3.0 for reduction option progress for Methyl Ethyl Ketone, n-Butyl Acetate, and Ethyl Acetate.



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

2-Butoxyethanol and Solvent Naphtha Medium Aliphatic have not been previously reported. Therefore, comparison numbers are not provided.

Substance	Year	Amount Used	Change
Methanol	2014	> 10 to 100	-5.15%,
	2015	> 10 to 100	-1.18 tonnes
Methyl Ethyl Ketone	2014	> 10 to 100	-0.40%,
	2015	> 10 to 100	-0.054 tonnes
Toluene	2014	> 10 to 100	+2.91%,
	2015	> 10 to 100	+2.39 tonnes
Xylene (all isomers)	2014	> 1 to 10	+5.82%,
	2015	> 10 to 100	+0.57 tonnes
Volatile Organic Compounds	2014	> 100 to 1000	-5.13%,
	2015	> 100 to 1000	-13.37 tonnes
n-Butyl Acetate	2014	> 10 to 100	-3.00%,
	2015	> 10 to 100	-1.06 tonnes
Ethyl Acetate	2014	> 10 to 100	-0.06%,
	2015	> 10 to 100	-0.02 tonnes
Ethyl Alcohol	2014	> 10 to 100	+15.06%,
	2015	> 10 to 100	+2.21 tonnes
Isopropyl Alcohol	2014	> 1 to 10	-18.91%,
	2015	> 1 to 10	-1.07 tonnes
Methyl Isobutyl Ketone	2014	> 1 to 10	-5.19%,
	2015	> 1 to 10	-0.25 tonnes
Solvent Naphtha Light Aliphatic	2014	> 1 to 10	-11.34%,
	2015	>1 to 10	-0.31 tonnes
Acetone	2014	> 10 to 100	+7.33%,
	2015	> 10 to 100	+1.94 tonnes



Substance	Year	Amount Created	Change
Particulate Matter <= 2.5 Microns	2014	> 1 to 10	0.0%,
	2015	> 1 to 10	0.0 tonnes
Particulate Matter <= 10 Microns	2014	> 1 to 10	0.0%,
	2015	> 1 to 10	0.0 tonnes



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Substance	Year	Amount Released to Air	Change
Methanol	2014	> 10 to 100	+18.19%,
	2015	> 10 to 100	+1.84 tonnes
Methyl Ethyl Ketone	2014	> 1 to 10	-63.32%,
	2015	> 1 to 10	-5.63 tonnes
Toluene	2014	> 10 to 100	+31.31%,
	2015	> 10 to 100	+11.13 tonnes
Xylene (all isomers)	2014	> 1 to 10	+102.77%,
	2015	> 1 to 10	+3.07 tonnes
Particulate Matter <= 2.5 Microns	2014	> 1 to 10	0.0%,
	2015	> 1 to 10	0.0 tonnes
Particulate Matter <= 10 Microns	2014	> 1 to 10	0.0%,
	2015	> 1 to 10	0.0 tonnes
Volatile Organic Compounds	2014	> 100 to 1000	-6.42%,
	2015	> 100 to 1000	-8.48 tonnes
n-Butyl Acetate	2014	> 10 to 100	+121.91%,
	2015	> 10 to 100	+15.80 tonnes
Ethyl Acetate	2014	> 10 to 100	-41.38%,
	2015	> 10 to 100	-13.54 tonnes
Ethyl Alcohol	2014	> 10 to 100	-49.61%,
	2015	> 1 to 10	+6.95 tonnes
Isopropyl Alcohol	2014	> 1 to 10	-69.45%,
	2015	> 1 to 10	-3.66 tonnes
Methyl Isobutyl Ketone	2014	> 1 to 10	+177.75%,
	2015	> 1 to 10	+2.38 tonnes
Solvent Naphtha Light Aliphatic	2014	> 1 to 10	-40.32%,
	2015	> 1 to 10	-0.82 tonnes
Acetone	2014	> 10 to 100	+41.38%,
	2015	> 10 to 100	+6.05 tonnes



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Substance	Year	Amount Disposed	Change
Methanol	2014	--	+100%
	2015	> 1 to 10	
Methyl Ethyl Ketone	2014	--	+100%
	2015	> 1 to 100	
Toluene	2014	--	+100%
	2015	> 1 to 100	
Xylene (all isomers)	2014	--	+100%
	2015	> 1 to 10	
Volatile Organic Compounds	2014	--	+100%
	2015	> 10 to 100	
n-Butyl Acetate	2014	--	+100%
	2015	> 0 to 1	
Ethyl Acetate	2014	--	+100%
	2015	> 10 to 100	
Ethyl Alcohol	2014	--	+100%
	2015	> 1 to 10	
Isopropyl Alcohol	2014	--	+100%
	2015	> 0 to 1	
Methyl Isobutyl Ketone	2014	--	0%
	2015	0	
Solvent Naphtha Light Aliphatic	2014	--	+100%
	2015	> 1 to 10	
Acetone	2014	--	+100%
	2015	> 1 to 10	



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Substance	Year	Amount Recycled	Change
Methanol	2014	> 10 to 100	-45.30%,
	2015	> 1 to 10	-5.76 tonnes
Methyl Ethyl Ketone	2014	> 1 to 10	+42.18%,
	2015	> 1 to 10	+1.93 tonnes
Toluene	2014	> 10 to 100	-33.99%,
	2015	> 10 to 100	-15.42 tonnes
Xylene (all isomers)	2014	> 1 to 10	-25.45%,
	2015	> 1 to 10	-0.70 tonnes
Volatile Organic Compounds	2014	> 10 to 100	-2.92%,
	2015	> 10 to 100	-2.62 tonnes
n-Butyl Acetate	2014	> 1 to 10	-37.27%,
	2015	> 1 to 10	-2.64 tonnes
Ethyl Acetate	2014	> 1 to 10	+19.04%,
	2015	> 10 to 100	+1.66 tonnes
Ethyl Alcohol	2014	> 0 to 1	+1186.20%,
	2015	> 1 to 10	+8.13 tonnes
Isopropyl Alcohol	2014	> 0 to 1	+482.72%,
	2015	> 1 to 10	+2.00 tonnes
Methyl Isobutyl Ketone	2014	> 1 to 10	-71.31%,
	2015	> 0 to 1	-1.15 tonnes
Solvent Naphtha Light Aliphatic	2014	> 0 to 1	-100%
	2015	0	
Acetone	2014	> 10 to 100	-50.59%,
	2015	> 1 to 10	-5.98 tonnes



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Substance	Year	Amount Contained in Product	Change
Methanol	2014	0	0.0%,
	2015	0	0.0 tonnes
Methyl Ethyl Ketone	2014	0	0.0%,
	2015	0	0.0 tonnes
Toluene	2014	> 1 to 10	+100%,
	2015	0	
Xylene (all isomers)	2014	> 1 to 10	-83.55%,
	2015	> 0 to 1	-3.38 tonnes
Volatile Organic Compounds	2014	> 10 to 100	-92.04%,
	2015	> 1 to 10	-37.03 tonnes
n-Butyl Acetate	2014	> 10 to 100	-95.50%,
	2015	> 0 to 1	-14.59 tonnes
Ethyl Acetate	2014	0	0.0%,
	2015	0	0.0 tonnes
Ethyl Alcohol	2014	0	0.0%,
	2015	0	0.0 tonnes
Isopropyl Alcohol	2014	0	0.0%,
	2015	0	0.0 tonnes
Methyl Isobutyl Ketone	2014	> 1 to 10	-77.67%,
	2015	> 0 to 1	-1.48 tonnes
Solvent Naphtha Light Aliphatic	2014	0	+0.0%,
	2015	0	+0.0 tonnes
Acetone	2014	0	0.0%,
	2015	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 Reduction Option Implementation

Reduction plans for Methyl Ethyl Ketone, n-Butyl Acetate, and Ethyl Acetate were prepared during the 2012 reporting year.

The facility intends to reduce the use of all three chemicals by implementing “Materials or Feedstock Substitutions” options. Reduction options for Methyl Ethyl Ketone, n-Butyl Acetate, and Ethyl Acetate were implemented during the 2014 reporting year in April 2014, which meets the target timeline for implementation.

No reduction options of Methyl Ethyl Ketone, n-Butyl Acetate, or Ethyl Acetate were implemented during this reporting period as they were completed in the previous reporting year.

The facility does not create these three chemicals at the facility; therefore, no reduction options are implemented to reduce their creation.

The facility has taken no additional actions, outside the Toxic Substance Reduction Plans, to achieve the plan objectives.



4.0 Signed Certification Statement

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.

Methanol

Methyl Ethyl Ketone

Toluene

Xylene (all isomers)

2-Butoxyethanol

n-Butyl Acetate

Ethyl Acetate

Ethyl Alcohol

Isopropyl Alcohol

Methyl Isobutyl Ketone

Solvent Naphtha Light Aliphatic

Solvent Naphtha Medium Aliphatic

Acetone

Volatile Organic Compounds (VOCs)

PM10 - Particulate Matter

PM2.5 - Particulate Matter

Dave Marcus, President

(electronic signature on file)