AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Facility Information

Company Name	AOC Resins and Coatings Co.
Facility Name	AOC Resins and Coatings Co.
Facility Physical Address	38 Royal Road Guelph, ON N1H 1G3
Facility Mailing Address	Same as physical address
Spatial Coordinates of Facility	556777E, 4821184N
Number of Employees	84
NPRI ID	3284
2 Digit NAICS Code	32
4 Digit NAICS Code	3252
6 Digit NAICS Code	325210

Parent Company Information

Parent Company Name	AOC Aliancys
Address	955 Highway 57 East Collierville, TN 38017-5205
Percent Ownership (if available)	100.00%

Facility Contact

Public Contact	Nick Seaton
Position	Environmental, Health, and Safety Leader
Address	38 Royal Road Guelph, ON N1H 1G3
email	NSeaton@aocaliancys.com
Phone	519-823-4362
Fax	519-821-0123

Date of Summary

Reporting Year	2018
Summary Date	June 1, 2019

Toxics Substances Reported

Methanol, Zinc, Styrene, Ethylene Glycol, Maleic Anhydride, Acetone, Acetaldehyde, Methyl Methacrylate, Phthalic Anhydride, Nonylphenol and its ethoxylates, PM10, PM2.5, Cobalt

Copy of Certification:

As of June 1, 2019, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

The original version of this report is signed off by:

Highest Ranking Employee: Paul Chang
Title: Plant Manager

Paul Chang — Signed

June 26, 2019 — Date

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)
CAS #	67-56-1
Report Date:	1-Jun-19
Plan Date:	7-Dec-12
Plan Objectives and Targets	Whenever feasible, AOC will eliminate, or reduce the use, creation and discharge of methanol in full compliance with all Federal and Provincial Regulations.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>0 to -1	-2%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	> -1 to -10	-2%
Summary of reasons for changes between current year and previous year.	Decreased purchasing and used 2017 carry-over inventory			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ZINC (AND ITS COMPOUNDS)
CAS #	7440-66-6
Report Date:	1-Jun-19
Plan Date:	14-Nov-14
Plan Objectives and Targets	AOC Resins and Coatings Co. is committed to playing a leadership role in protecting the environment.For the purposes of the Toxics Reduction Act, the facility will not be implementing any options to reduce the use of Zinc in its operations because it is a required component for the facility's final product. Whenever feasible, AOC will eliminate, or reduce the discharge of Zinc in full compliance with all Federal and Provincial egulations.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>100 to 1000	163%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	>100 to 1000	163%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	STYRENE
CAS #	100-42-5
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	AOC Resins and Coatings Co. - Guelph Facility is committed to playing a leadership role in protecting the environment. For the purposes of the Toxics Reduction Act, the facility will not be implementing any options to reduce the use of Styrene in its operations because it is a required component for the facility's final product. Whenever feasible, AOC will eliminate, or reduce the discharge of Styrene in full compliance with all Federal and Provincial Regulations.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	12%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10,000 to 100,000	>10,000 to 100,000	>1000 to 10,000	12%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ETHYLENE GLYCOL
CAS #	107-21-1
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Ethylene Glycol by implementing the technically and economically feasible reduction options.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>1000 to 10,000	>100 to 1000	59%
C - Created	0	0	0	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to 1	61%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	MALEIC ANHYDRIDE
CAS #	108-31-6
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Maleic Anhydride by implementing the technically and economically feasible reduction options.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	>100 to 1000	24%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1 to 10	>1 to 10	>0 to 1	24%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ACETONE
CAS #	67-64-1
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Acetone by implementing the technically and economically feasible reduction options.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	0	0%
C - Created	0	0	0	NA
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No change.			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	ACETALDEHYDE
CAS #	75-07-0
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Acetaldehyde by implementing the technically and economically feasible reduction options.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	10%
C - Created	0	0	0	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	>1 to 10	10%
Summary of reasons for changes between current year and previous year.	Increase in production.			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	METHYL METHACRYLATE
CAS #	80-62-6
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Methyl Methacrylate by implementing the technically and economically feasible reduction options.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>10 to 100	21%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	>10 to 100	21%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PHTHALIC ANHYDRIDE
CAS #	85-44-9
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	The objective of this plan is to reduce the use of Phthalic Anhydride by implementing the technically and economically feasible reduction options

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	>100 to 1000	46%
C - Created	0	0	0	NA
P - In a product that leaves the process	>0 to 1	>1 to 10	>1 to 10	562%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Nonylphenol and its ethoxylates
CAS #	N/A
Report Date:	1-Jun-19
Plan Date:	15-Dec-15
Plan Objectives and Targets	AOC Resins and Coatings Co. is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of nonylphenol and its ethoxylates in full compliance with all Federal and Provincial Regulations.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>1 to 10	120%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1 to 10	>1 to 10	>1 to 10	120%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM10 - PARTICULATE MATTER <=10MICRONS
CAS #	N/A - M09
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	Our goal is to reduce Particulate Matter (PM10 & PM2.5) used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-25%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas consumption			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM2.5 - PARTICULATE MATTER <=2.5MICRONS
CAS #	N/A - M10
Report Date:	1-Jun-19
Plan Date:	16-Dec-13
Plan Objectives and Targets	Our goal is to reduce Particulate Matter (PM10 & PM2.5) used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-31%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Decrease in natural gas consumption			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	None
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None
Summary of differences between steps taken and those set out in the plan.	None
Description of amendments to the plan.	None

AOC Resins and Coatings Co. - Guelph Facility

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	COBALT (AND ITS COMPOUNDS)
CAS #	7440-48-4
Report Date:	1-Jun-19
Plan Date:	1-Nov-17
Plan Objectives and Targets	AOC Resins and Coatings Co. - Guelph Facility is committed to playing a leadership role in protecting the environment. For the purposes of the Toxics Reduction Act, the facility will not be implementing any options to reduce the use of Cobalt in its operations because it is a required component for the facility's final product. Whenever feasible, AOC will eliminate, or reduce the discharge of Cobalt (and its compounds) in full compliance with all Federal and Provincial Regulations.

Toxics Substance Accounting and Comparison

Pathways	2017	2018	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	>1000 to 10,000	157%
C - Created	0	0	0	NA
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>1000 to 10,000	157%
Summary of reasons for changes between current year and previous year.	Increase in production			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable