

2016 TOXICS REDUCTION ACT

**Report on Toxic Substance
Accounting Requirements**

ARLANXEO East Site
856 Tashmoo Ave
Sarnia, Ontario
N7T 7M2

April 2017

Version Control

Version	Date Issued	Modifications
Original	April 2017	Original version made available to the public and employees

Report on Toxic Substances
Accounting Requirements

Table of Contents

1.0 INTRODUCTION 1

2.0 RESPONSIBLE CARE COMMITMENT 2

3.0 REPORTING CRITERIA 3

 3.1 Class of Facility 3

 3.2 Number of Persons 3

 3.3 Amounts of Toxic Substance Used or Created 3

 3.4 Other Criteria 4

4.0 GENERAL FACILITY INFORMATION 5

5.0 SUBSTANCE REPORTING 6

 5.1 2-Methylpropene (Isobutylene) (CAS# 115-11-7) 7

 5.2 Bromine (CAS# 7726-95-6) 8

 5.3 Chlorine (CAS# 7782-50-5) 9

 5.4 Chloromethane (CAS# 74-87-3)10

 5.5 Ethylene (CAS# 74-85-1) 11

 5.6 Hydrochloric Acid (CAS# 7647-01-0) 12

 5.7 Isoprene (CAS# 78-79-5) 13

 5.8 Isopropyl Alcohol (CAS# 67-63-0) 14

 5.9 Methanol (CAS# 67-56-1) 15

 5.10 n-Hexane (CAS# 110-54-3) 16

 5.11 tert-Butyl Alcohol (CAS# 75-65-0) 17

 5.12 PM10 - Particulate Matter <10 microns (CAS# NA – M09) 18

 5.13 Butene (All Isomers) (CAS# 25167-67-3) 19

 5.14 Hexane (all isomers excluding n-hexane) (CAS# NA-32) 20

 5.15 Propane (CAS# 74-98-6) 21

6.0 ANNUAL CERTIFICATION STATEMENT 22

1.0 INTRODUCTION

ARLANXEO Canada East Site is a Butyl Rubber manufacturing facility. Butyl Rubber is used primarily in the tire industry although this facility also manufactures products for the pharmaceutical and food industries.

Protection of the environment is a fundamental ARLANXEO value. It is our responsibility to determine and manage the impacts of our business through programs like the Toxics Reduction Act.

This annual toxics substance accounting report has been prepared to meet the regulatory obligations specified in Section 10 of the Act and has been prepared in accordance with the requirements of Section 27(1) of Ontario Regulation 455/09, as amended from time to time. It summarizes the relevant reporting requirements and will be updated, as required by the Act and O. Reg. 455/09.

For more information on the Toxics Reduction Act and O. Reg. 455/09 visit:
<http://www.ontario.ca/environment-and-energy/toxic-substance-reduction-planner-licence>

2.0 RESPONSIBLE CARE® COMMITMENT

ARLANXEO Canada Inc. is a member of the Chemistry Industry Association of Canada (<http://www.canadianchemistry.ca/>) and as such follows the association's **Responsible Care®** initiative. Responsible Care was developed in Canada in 1988 as a program to collectively improve the environmental, health and safety performance of member companies. Responsible Care has been very successful in this regard and has expanded into a global movement, now practiced in more than 60 countries around the world, and overseen by the International Council of Chemical Associations (<https://www.icca-chem.org>).

Responsible Care® is the chemistry industry's commitment to sustainability – the betterment of society, the environment, and the economy. Through Responsible Care®, CIAC member-companies strive to “do the right thing and be seen to do the right thing.”

Responsible Care® covers all aspects of our company's business, over the entire life cycle of our products. In addition, ARLANXEO Canada Inc. and its Management Team must annually reaffirm their commitment to the **Ethic and Principles for Sustainability**, and the **Codes of Practice**, and undergo a regular third-party verification process that allows independent experts and members of the public to verify that they're living up to the standards set by Responsible Care®.

ARLANXEO Canada Inc was successfully reverified in 2016 by outside community and industry verifiers for the 2nd time since 2013. To view the latest report, visit www.arlanxeo.com/na. ARLANXEO Canada Inc will be reverified again in 2019.

A key component of Responsible Care is to innovate for safer products and processes that conserve resources, reduce risk and enhance value. This is accomplished through a regular review of products and processes.

At ARLANXEO Canada Inc we have addressed this through improvements to reduce energy usage and associated greenhouse gases, the installation of a regenerative thermal oxidizer to reduce VOC emissions, and through innovative approaches to waste management, diverting former waste streams to either recycle or reuse.

ARLANXEO Canada Inc has embraced the goals of the chemistry industry's Responsible Care initiative and applied them throughout our processes and facilities. We dedicate ourselves, our technology and our business practices to sustainability - the betterment of society, the environment and the economy.

The principles of Responsible Care® are key to our business success, and compel us to continually innovate for safer and greener products and processes, and work to continuously improve our environmental, health and safety performance.

3.0 REPORTING CRITERIA

Section 3(1) of the Act specifies the criteria requiring the preparation of a toxic substance plan. These criteria are as follows:

- 3. (1) The owner and the operator of a facility shall ensure that a toxic substance reduction plan is prepared for a toxic substance in accordance with this Act and the regulations if all of the following criteria are met:*
 - 1. The facility belongs to a class of facilities prescribed by the regulations.*
 - 2. The number of persons employed at the facility exceeds the number of persons prescribed by the regulations.*
 - 3. The toxic substance is used or created at the facility and the amounts of the substance that are used or created meet the criteria prescribed by the regulations.*
 - 4. Such other criteria as are prescribed by the regulations. 2009, c. 19, s. 3 (1).*

Specific criteria are outlined in O. Reg. 455/09. The following sections detail the criteria and applicability to the ARLANXEO East facility.

3.1 Class of Facility

Section 4(1) of O. Reg. 455/09 specifies the types of facilities subject to toxic substance reduction planning and includes facilities that begin in North American Industry Classification System code "31", "32" or "33" and "212".

The ARLANXEO East Site carries out manufacturing activities related to "Chemical Manufacturing", which begins in NAICS code "325", which is a code identified in O. Reg. 455/09.

3.2 Number of Persons

Section 5 of O. Reg. 455/09 specifies the numbers of persons at a facility must be greater than zero. In 2015, the ARLANXEO Canada Site employed 132 full-time equivalent employees.

3.3 Amounts of Toxic Substance Used or Created

Section 6 of O. Reg. 455/09 specifies that amounts of a toxic substance used or created must exceed zero. In 2013, the use or creation of toxic substances for which accounting is required is greater than zero (refer to Section 4).

3.4 Other Criteria

Section 7(1) of O. Reg. 455/09 requires the owner and operator of a facility provide information on National Pollutant Release Inventory (TRIA) substances if reporting to the TRIA is required; or if the substance is acetone and reporting under Ontario Regulation 127/01 (Airborne Contaminant Discharge Monitoring and Reporting) made under the Environmental Protection Act applies. In 2013, the ARLANXEO Canada East Site was required to report to the TRIA. Specifically, the ARLANXEO Canada East Site met the reporting requirements for the following substances listed in Schedule A of O. Reg. 455/09:

TRIA Part 1A Substances:

- 2-Methylpropene (Isobutylene)
- Bromine
- Chlorine
- Chloromethane
- Ethylene
- Hydrochloric Acid
- Isoprene
- Isopropyl Alcohol
- Methanol
- n-Hexane
- tert-Butyl Alcohol

TRIA Part 4 Substances:

- PM 10

TRIA Part 5 Substances:

- N-hexane (also reported as a Part 1A Substance)
- Propane
- Butene (all isomers)
- Hexane (all isomers excluding n-Hexane)

4.0 GENERAL FACILITY INFORMATION

Table 4-1 summarizes the general facility information with reference to the Act and/or O. Reg. 455/09.

Table 4-1: General Facility Information

Reporting Requirement	Facility Information	Reference to Act and/or O. Reg. 455/09
Parent Company Name	ARLANXEO Canada Inc.	O. Reg. 455/09 s.18(2) subparagraph 14
Parent Company Address	1265 Vidal St. South Sarnia, ON N7T 7M2	O. Reg. 455/09 s.18(2) subparagraph 14
Facility Name	ARLANXEO Canada EAST	O. Reg. 455/09 s.18(2) subparagraph 14
Facility Address	856 Tashmoo Ave Sarnia, ON N7T 7M2	O. Reg. 455/09 s.18(2) subparagraph 14
Universal Transverse Mercator (UTM) in North American Datum (NAD83)	Latitude: 42.98890 Longitude: -82.40260 UTM Easting : 384982.92 UTM Northing : 4755131.78	O. Reg. 455/09 s.18(2) subparagraph 13
National Pollutant Release Inventory Identification Number	11130	O. Reg. 455/09 s.18(2) subparagraph 2
Ontario Regulation 127/01 Identification Number	Not applicable	O. Reg. 455/09 s.18(2) subparagraph 3
Two Digit North American Industry Classification System (NAICS) Code	32 – Manufacturing	O. Reg. 455/09 s.18(2) subparagraph 6
Four Digit North American Industry Classification System (NAICS) Code	3252 – Chemical Manufacturing Synthetic Rubber	O. Reg. 455/09 s.18(2) subparagraph 6
Six Digit North American Industry Classification System (NAICS) Code	325210 - Chemical Manufacturing Synthetic Rubber	O. Reg. 455/09 s.18(2) subparagraph 6
Number of Full-time Employee Equivalents at the Facility	132 (as of December 31, 2016)	O. Reg. 455/09 s.18(2) subparagraph 5
Facility Public Contact	Tim Knapp Manager, Health Safety & Environment 1265 Vidal St. South Sarnia, Ontario N7T 7M2 Email: tim.knapp@arlanxeo.com	O. Reg. 455/09 s.18(2) subparagraph 7

5.0 SUBSTANCE REPORTING

In accordance with s. 26(1) subparagraphs 2 and 7, the ARLANXEO Canada East Site made determinations for each substance reportable under the Act as follows:

- 1) The amount of the substance that enters a process as the substance itself or as a constituent of another substance.
- 2) The amount of the substance that is created.
- 3) If the substance is a TRA substance,
 - i. quantifications relating to its release, disposal and transfer that
 - A. are required to be provided under the TRA Notice, or
 - B. are determined through mass balance, published emission factors, site specific emission factors or engineering estimates, if no quantifications were required to be provided under the TRA Notice, and
 - ii. the amount of the substance that is contained in product, other than a substance that is identified as a criteria air contaminant or a volatile organic compound in the TRA Notice.
- 4) If the toxic substance is acetone, the calculations mentioned in subsection 4 (3) of Ontario Regulation 127/01 (Airborne Contaminant Discharge Monitoring and Reporting) made under the Environmental Protection Act.

The units of measure depend upon the substance being reported under the TRA and O. Reg. 127/01. Generally, release, disposal and recycling quantities are reported in tonnes. However, for substances with alternate reporting thresholds, these quantities are reported in kilograms or grams.

- TRA Part 1A – Substances listed at the original TRA threshold [tonnes]
- TRA Part 1B – Metals listed at an alternate threshold [kilograms]
- TRA Part 2 – Polycyclic aromatic compounds (PAHs), [kilograms]
- TRA Part 3 – Hexachlorobenzene (HCB), Dioxins/furans (toxic equivalent), [grams]
- TRA Part 4 – Criteria Air Contaminants (CACs) [tonnes]
- TRA Part 5 – Speciated volatile organic compounds [tonnes]
- O. Reg. 127/01 – Acetone [tonnes]

5.1 2-Methylpropene (Isobutylene)

Substance Name	2-Methylpropene (Isobutylene)
CAS Number	115-11-7

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of 2-Methylpropene is not targeted at this point.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	83674	105853	27%	22178	Change in production level
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	83293	105652	27%	22360	Change in production level
Air Releases (tonnes)	46.764	55.111	18%	8.347	Change in production level
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0.021	0.013	-41%	-0.009	No significant change
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.2 Bromine

Substance Name	Bromine
CAS Number	7726-95-6

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of Bromine is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	1066	1310	23%	244	Change in product mix
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	542	670	24%	129	Change in product mix
Air Releases (tonnes)	0	0	0%	0	NA
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.3 Chlorine

Substance Name	Chlorine
CAS Number	7782-50-5

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of Chlorine is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	793	1030	30%	237	Change in product mix
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	385	506	31%	121	Change in product mix
Air Releases (tonnes)	0	0	0%	0	NA
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.4 Chloromethane

Substance Name	Chloromethane
CAS Number	74-87-3

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of Chloromethane is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	468.311	570.462	22%	102.152	Change in production level
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	59.247	69.397	17%	10.150	Change in production level
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	11.351	7.879	-31%	-3.472	Improved recovery of material
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.5 Ethylene

Substance Name	Ethylene
CAS Number	74-85-1

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use or emissions of Ethylene is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	50.277	67.246	34%	16.969	Equipment reliability issues
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	10.309	12.783	24%	2.474	Equipment reliability issues
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.6 Hydrochloric Acid

Substance Name	Hydrochloric Acid
CAS Number	7647-01-0

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the creation or emissions of Hydrochloric Acid is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	0	0	0%	0	NA
Created (tonnes)	196.159	265.798	36%	69.639	Change in production levels
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	164.203	221.944	35%	57.741	Change in production levels
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.7 Isoprene

Substance Name	Isoprene
CAS Number	78-79-5

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of Isoprene is not targeted at this time. A reduction in the emissions of isoprene is targeted.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	2587	3176	23%	589	Change in production levels
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	2580	3151	22%	571	Change in production levels
Air Releases (tonnes)	4.668	5.251	12%	0.583	Change in production levels
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.8 Isopropyl Alcohol

Substance Name	Isopropyl Alcohol
CAS Number	67-63-0

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use of Isopropyl Alcohol is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	5.184	7.128	38%	1.944	Change in production levels
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	0	0	0%	0	NA
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.9 Methanol

Substance Name	Methanol
CAS Number	67-56-1

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the creation of Methanol is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	0	0	0%	0	NA
Created (tonnes)	72.072	71.756	0%	-0.316	No significant change
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	9.979	12.375	24%	2.396	Change in production levels
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	49.807	43.739	-12%	-6.069	Improved recovery of material
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.10 n-Hexane

Substance Name	n-Hexane
CAS Number	110-54-3

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use or emissions of n-Hexane is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	524.986	683.767	30%	158.781	Change in production levels
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	1.456	1.682	16%	0.226	Change in production levels
Air Releases (tonnes)	385.569	492.988	28%	107.420	Change in production levels
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.11 tert-Butyl Alcohol

Substance Name	tert-Butyl Alcohol
CAS Number	75-65-0

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use and emissions of tert-Butyl Alcohol is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments The source of tert-Butyl Alcohol in ARLANXEO East is as a byproduct of the isobutylene extraction process in ARLANXEO West. This process was shut down permanently in 2014 therefore tert-Butyl Alcohol is no longer used in ARLANXEO East. Some material continues to be produced as a byproduct in ARLANXEO East.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	0	0	0%	0	NA
Created (tonnes)	1.668	1.362	-18.38%	-0.307	No significant change
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	0	0	0%	0	NA
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	1.668	1.362	-18%	-0.307	No significant change
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.12 Particulate Matter (PM10)

Substance Name	Particulate Matter (PM10)
CAS Number	NA – M09

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the emissions of Particulate Matter (PM10) is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	0	0	0%	0	NA
Created (tonnes)	15.174	15.174	0%	0	No significant change
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	15.174	15.174	0%	0	No significant change
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.13 Butene (all isomers)

Substance Name	Butene (all isomers)
CAS Number	25167-67-3

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use or emissions of Butene is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	83694	105877	27%	22183	Change in production level
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	83312	105677	27%	22364	Change in production level
Air Releases (tonnes)	46.764	55.111	18%	8.347	Change in production level
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.14 Hexane (all isomers excluding n-Hexane)

Substance Name	Hexane (all isomers excl. n-Hexane)
CAS Number	NA-32

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use or emissions of Hexane is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	379.756	494.613	30%	114.857	Change in production level
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	1.053	1.217	16%	0.163	Change in production level
Air Releases (tonnes)	315.405	401.540	27%	86.135	Change in production level
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA

5.15 Propane

Substance Name	Propane
CAS Number	74-98-6

Date of Toxic Reduction Plan 23-December-2013

Reduction Objective and Target A reduction of the use or emissions of Propane is not targeted at this time.

Description of Steps and Effectiveness Not applicable.

Amendments There have been no amendments to the plan in the reporting period.

Substance Accounting

Required Information	2015 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale for Change (if >10%)
Use (tonnes)	251.772	303.845	21%	52.073	Equipment reliability issues
Created (tonnes)	0	0	0%	0	NA
Contained in Product (tonnes)	0	0	0%	0	NA
Air Releases (tonnes)	13.555	13.215	-3%	-0.340	No significant change
Water Releases (tonnes)	0	0	0%	0	NA
On-site Disposal (tonnes)	0	0	0%	0	NA
Transferred for Disposal (tonnes)	0	0	0%	0	NA
Transferred for Recycling (tonnes)	0	0	0%	0	NA



Performance Elastomers

6.0 ANNUAL CERTIFICATION STATEMENT

As of April 30, 2017, I certify that I have read the report on the toxic substance reduction plan for 2-Methylpropene (Isobutylene), Bromine, Chlorine, Chloromethane, Ethylene, Hydrochloric Acid, Isoprene, Isopropyl Alcohol, Methanol, n-Hexane, tert-Butyl Alcohol, PM 10, Propane, Butene (all isomers) and, Hexane (all isomers excluding n-Hexane) and am familiar with their contents and to my knowledge the information contained in the report is factually accurate and the report complies with the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

A handwritten signature in blue ink, appearing to be 'JS', written over a horizontal line.

April 30, 2017

John Schmidt, President and Site Manager, ARLANXEO Canada Inc.

