

Toxics Reduction Act Public Annual Report Calendar 2017

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)	Hanwha L&C Canada 2860 Innovation Drive London N6M 0C5 ON
Facility NPRI identification number	0000011764
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	0000011764
Number of full-time employees	94
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33 Manufacturing 3261 Plastic product manufacturing 326198 All other plastic product manufacturing
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public: Public Contact (if applicable) Title	Stacey Smith Environmental Health & Safety Specialist
Phone Number	519-951-3138
Address of each person below if not the same as the facility Facility Name	Hanwha L&C Canada
Address 1	2860 Innovation Drive
Address 2	
City	London
Province	ON
Postal Code	N6M 0C5
UTM coordinates, x and y Datum	X 489204 Y 4756510 WGS84
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company Parent company name	Not Applicable
Address 1	
Address 2	
City	
Province	
Postal Code	
Percent Ownership	

Substance Accounting

Substance:	Styrene
CAS Number:	100-42-5
On a facility-wide basis:	Amount Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	>1000 - 10000 tonnes
The amount of substance that was created:	0.000 tonnes
The amount of substance that was contained in product:	>1000 - 10000 tonnes
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	

Substance Accounting

Substance:	Acetone
CAS Number:	67-64-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount Units >100 - 1000 tonnes
The amount of substance that was created:	0.000 tonnes
The amount of substance that was contained in product:	Not Applicable tonnes
<p>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</p>	

Substance:	Cobalt (and its compounds)
CAS Number:	NA - 05
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount Units >100 - 1000 kilograms
The amount of substance that was created:	0.000 kilograms
The amount of substance that was contained in product:	>100 - 1000 kilograms
<p>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</p>	

Annual Progress Report

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Styrene	100-42-5
Cobalt (and its compounds)	NA - 05
Acetone	67-64-1

Plan Objectives

The reduction of toxic substance use, creation and releases is a priority for Hanwha forming part of their sustainability programs and EMS. Their goal is to reduce the use and release of Styrene and Acetone where technically and economically feasible. No technically and economically feasible reduction options for reducing these substances were identified. However, Hanwha will continue to monitor new technological advancements to ensure that reduction options that are both technologically and financially viable are implemented at their facility.

Toxics Reduction Progress

Quantities of Styrene used and contained in product increased when compared with the previous reporting period due to an increase in production at the site resulting from the addition of a second production line. Increases in the annual quantities of Acetone used for cleaning operations and released to atmosphere due to evaporation are due to variations in the number of different products made during the calendar year requiring increased cleaning operations due to product change overs as well as an increase in production. In the case of Cobalt (and its compounds), use of this substance remains essentially unchanged from the previous reporting period.

Plan Implementation Progress

There were no reduction options identified in any of the plans for the above noted substances that were identified as being both technically and economically feasible. As such, there were no timelines presented in the reduction plans for the above noted substances. However, Hanwha will continue to explore and investigate potential reduction options as they arise as part of their sustainability program.

As there were no anticipated reductions noted in each of the plans for the toxic substances noted above, there were no reductions of any toxic substances during the reporting period that would be attributable to any reduction plan.

Comparison of Reported Quantities

Substance	CASRN	Report Year	Used	Created	In Product	Air	Water	Disposal	Recycle
Styrene (units Mg)	100-42-5	2016	>100 - 1000	0.000	>100 - 1000	>10 - 100	0.000	0.000	0.000
		2017	>1000 - 10000	0.000	>1000 - 10000	>10 - 100	0.000	0.000	0.000
		Change	>100 - 1000	0.000	>100 - 1000	>1 - 10	0.000	0.000	0.000
		Change %	25.2%	0.000	25.2%	25.2%	0.0%	0.0%	0.0%
Cobalt and its compounds (units kg)	NA - 05	2016	>100 - 1000	0.000	>100 - 1000	0.000	0.000	0.000	0.000
		2017	>100 - 1000	0.000	>100 - 1000	0.000	0.000	0.000	0.000
		Change	>1 - 10	0.000	>1 - 10	0.000	0.000	0.000	0.000
		Change %	2.5%	0.000	2.5%	0.0%	0.0%	0.0%	0.0%
Acetone (units Mg)	67-64-1	2016	>10 - 100	0.000	NA	>1 - 10	NA	NA	NA
		2017	>100 - 1000	0.000	NA	>1 - 10	NA	NA	NA
		Change	>10 - 100	0.000	NA	>1 - 10	NA	NA	NA
		Change %	21.1%	0.000	NA	20.6%	NA	NA	NA

Note: Red values indicate a reduction in the reported quantity relative to the previous reporting period.

Certification Statement

As of May 31, 2018, I certify that I have read the reports on the toxic substance reduction plans for Cobalt, Styrene and Acetone 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 the Act.

The original version of this report is signed off by: Highest Ranking Employee:

Title:

Phone Number:

Michael Kim
Chief Executive Officer
519-451-6600

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.