

MOECC – TOXIC REDUCTION ACT ANNUAL PUBLIC SUMMARY

OPERATIONAL COMPARISON 2017-2016

BASIC FACILITY INFORMATION

Company Name: Essex Group Canada Inc.

Address: 19-20 Gilbertson Drive
Simcoe, Ontario
N3Y 4L5

Contact Information: David Deming
Engineering Manager
519-428-3900
Dave/Deming@superioressex.com

Certifying Official: Jamie Main, P.Eng.
Plant Manager
519-428-3934
Jamie.main@spsx.com

Parent Company: Essex Group Inc.
1601 Wall Street, Fort Wayne, Indiana 46802 USA
100% Ownership

UTM Coordinates (NAD83): Zone – 17T
556990 m E, 4744427 m N

The facility's NPRI ID: 0000000953

In 2015, Essex employed about 117 full time employees (equivalent).

The NAICS codes applicable to the facility are:

33	- Manufacturing
335	- Electrical Equipment, Appliance and Component Manufacturing
335920	- Communication and Energy Wire and Cable Manufacturing (Can)

TOXIC REDUCTION STRATEGY STATEMENT OF INTENT

Essex Group Canada Inc. (Essex) is committed to playing a leadership role in protecting the environment. Wherever feasible, we will eliminate or reduce the use, creation and discharge of toxics in full compliance with all federal and provincial regulations. Our employees are encouraged to participate in all types of toxic substance reduction activities. Toxic substance reduction will be an ongoing effort at Essex, and we will continue to monitor advancements in magnet wire manufacturing to ensure that options that are both technologically and financially viable are implemented at our facility.

REDUCTION OBJECTIVES

All employees at Essex Group Canada Inc. are involved in the reduction of toxic substance use, creation and releases. Our goal is to reduce the use of copper and VOCs where technically and economically feasible.

No current options were identified that are technically feasible.

TOXIC SUBSTANCES

Nine (9) substances were required to be tracked, quantified and reported for under TRA. The TRA quantifications for each of the nine (9) substances were reported to the MOECC under O. Reg. 455/09 through SWIM.

TRACKING AND QUANTIFICATIONS

The method used to calculate the TRA quantifications was a mass balance approach. This is the best available method as there is no site specific monitoring data available.

Table 1 is a summary of reported TRA quantities for the 2017 operational year. When compared to the last reported values, there has been a decrease in the use of most substances. This decrease is attributed to changes in product specifications as there was actually an increase in production.

In the 2017 operational year, there were no out of the ordinary incidents or significant process changes at the facility.

COMPARISON OF TRACKING AND QUANTIFICATION

No changes were made in the quantification and tracking methodology from 2016 to 2017.

DESCRIPTION OF STEPS TAKEN TO ACHIEVE OBJECTIVE AND ASSESS EFFECTIVENESS

There was no technologically feasible reduction strategy objectives identified for the Essex facility. Therefore no objective are required to be tracked or reduction targets to evaluate.

Table 2 provides a summary of the facility TRA changes and updates which took place in 2017.

Table 1: Comparison of Quantities Reported

CAS	Substance	Description of Processes that Use or Create Substance	Reporting under NPRI Part	Threshold (tonnes)	2017 Used/ Released (tonnes)	Used/ Released 2016 (tonnes)	% Change	2017 Created (tonnes)	Created 2016 (tonnes)	% Change	2017 Contained In Product (tonnes)	Contained in Product 2016 (tonnes)	% Change	Reason for Changes
1319-77-3	Cresol	Enamels and thinners	1A	10 (MPO)	>1-10	>10-100	-27.3%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
1300-71-6	Dimethyl phenol	Enamels and thinners	1A	10 (MPO)	>10-100	>10-10	-16.6%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
1330-20-7	Xylene	Enamels and thinners	1A 5	10 (MPO) 1 (Release)	>10-100	>10-100	-6.79%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
NA-06	Copper (and its compounds)	Copper processed	1A	10 (MPO)	>1000-10000	>1000-10000	8.21%	0.00	0.00	0%	>1000-10000	>1000-10000	-5.37%	Increase in production
872-50-4	n-Methyl-2-pyrrolidone	Enamels and thinners	1A	10 (MPO)	>10-100	>10-100	12.6%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
108-95-2	Phenol	Enamels and thinners	1A	10 (MPO)	>10-100	>10-100	-29.2%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
95-63-6	1,2,4-Trimethylbenzene	Enamels and thinners	1A 5	10 (MPO) 1 (Release)	>10-100	>10-100	-21.8%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
64742-95-6	Light Aromatic Solvent Naphtha	Enamels and thinners	5	1 (Release)	>10-100	>10-100	-6.76%	0.00	0.00	0%	0.00	0.00	0%	Change in product specification
111-76-2	Glycol Ether (2-Butoxyethanol)	Enamels and thinners	5	1 (Release)	DNMC*	>1-10	DNMC	0.00	0.00	0%	0.00	0.00	0%	Change in product specification

*DNMC – substance Does Not Meet Criteria for reporting under NPRI reporting threshold criteria

Table 2: Changes in Quantifications, Quantities and Plan Updates									
CAS	Substance	Quantification Method(s) Used	Change in Quantification Method Used	Rationale for Using Selected Method(s)	Incidents out of the Ordinary	Significant Process Change	Objectives, Descriptions, Targets	Actions	Amendments
1319-77-3	Cresol	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
1300-71-6	Dimethyl phenol	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
1330-20-7	Xylene	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
NA-06	Copper (and its compounds)	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
872-50-4	n-Methyl-2-pyrrolidone	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
108-95-2	Phenol	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
95-63-6	1,2,4-Trimethylbenzene	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
64742-95-6	Light Aromatic Solvent Naphtha	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None
111-76-2	Glycol Ether (2-Butoxyethanol)	Mass Balance	No change	No site specific monitoring data available	No	No	No reduction options were identified to be both technically and economically feasible. Therefore, no options were chosen for implementation	None	None

CERTIFICATION OF HIGHEST RANKING EMPLOYEE

As of 19 December 2012, I, David L. MarcAurele, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Copper and its compounds

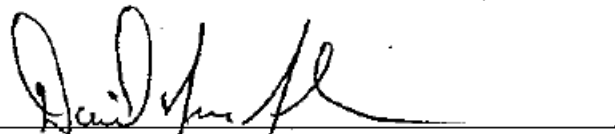


David L. MarcAurele
Plant Manager
Essex Group Canada Inc.

CERTIFICATION OF HIGHEST RANKING EMPLOYEE

As of 17 December 2012, I, David MarcAurele, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

- 1319-77-3 Cresol
- 8052-41-3 Stoddard Solvent
Glycol Ethers
- 1330-20-7 Xylene
- 872-50-4 n-Methyl-2-pyrrolidone
- 108-95-2 Phenol
- 95-63-6 1,2,4-Trimethylbenzene
- 64742-95-6 Light Aromatic Solvent Naphtha



David MarcAurele
Plant Manager
Essex Group Canada Inc.

CERTIFICATION OF HIGHEST RANKING EMPLOYEE

As of 31 December 2013, I, Jared Rowntree, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

- 1300-71-6 Dimethyl phenol



Jared Rowntree
Plant Manager
Essex Group Canada Inc.

Due to the change in management at the facility during the operational year of 2017 and ensure continuity with the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) the current Highest Ranking Official is providing an additional signature of certification for all the substances currently identified for the Essex Group Canada Inc. operations located in Simcoe, Ontario.