

**MOECC – TOXIC REDUCTION ACT ANNUAL PUBLIC SUMMARY**  
**OPERATIONAL COMPARISON 2016-2015**

**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: Robert Distler  
Manager, Environmental Health & Safety  
519-428-3900  
Robert.Distler@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 2016 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 a decrease in production as well as a decrease in the use of enamels in overall production.

In the 2016 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 2015 to 2016.

## **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 2016.

**Table 1: Comparison of Quantities Reported**

CAS	Substance	Description of Processes that Use or Create Substance	Reporting under NPRI Part	Threshold (tonnes)	2016 Used/ Released (tonnes)	Used/ Released 2015 (tonnes)	% Change	2016 Created (tonnes)	Created 2015 (tonnes)	% Change	2016 Contained In Product (tonnes)	Contained in Product 2015 (tonnes)	% Change	Reason for Changes
1319-77-3	Cresol	Enamels and thinners	1A	10 (MPO)	>10-100	>10-100	29.8%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
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%	Decrease use of product in production
1330-20-7	Xylene	Enamels and thinners	1A 5	10 (MPO) 1 (Release)	>10-100	>10-100	7%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
NA-06	Copper (and its compounds)	Copper processed	1A	10 (MPO)	>1000-10000	>1000-10000	-10.9%	0.00	0.00	0%	>1000-10000	>1000-10000	-13.8 %	Decrease in production
872-50-4	n-Methyl-2-pyrrolidone	Enamels and thinners	1A	10 (MPO)	>10-100	>10-100	-24.7%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
108-95-2	Phenol	Enamels and thinners	1A	10 (MPO)	>10-100	>10-100	57.0%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
95-63-6	1,2,4-Trimethylbenzene	Enamels and thinners	1A 5	10 (MPO) 1 (Release)	>10-100	>10-100	33.6%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
64742-95-6	Light Aromatic Solvent Naphtha	Enamels and thinners	5	1 (Release)	>10-100	>10-100	1.28%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production
111-76-2	Glycol Ether (2-Butoxyethanol)	Enamels and thinners	5	1 (Release)	>1-10	>1-10	12.5%	0.00	0.00	0%	0.00	0.00	0%	Decrease use of product in production

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

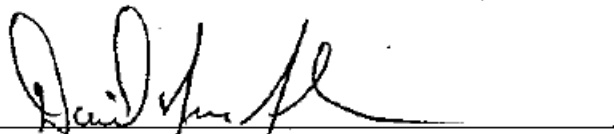


David L. MarcAurele  
Plant Manager  
Essex Group Canada Inc.

**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.