



**CHEMTURA CANADA CO./CIE**

**Elmira, Ontario**

**Annual Toxic Reduction Public Report**  
**Reporting Year 2013**

**June 1, 2014**

## INTRODUCTION

Chemtura Canada Co./Cie. Elmira manufactures specialty chemicals for the oil and plastics industry as well as agricultural chemicals. In the process of producing these chemicals, some substances used fall under the toxic reduction act, therefore reduction plans were generated to ensure efficient use of the substances with minimal environmental impact.

As per the Ontario's *Toxics Reduction Act and Regulation (O. Reg 455/09)*, reduction plans were generated for the following substances:

- Phase 1 -      Methanol  
                    Hydrochloric Acid  
                    Sulphuric Acid  
                    Toluene
- Phase 2 -      Acetone  
                    Ammonia  
                    Aniline  
                    Diphenyl Amine  
                    Isopropyl Alcohol  
                    Ethylene Glycol  
                    Phthalic Anhydride  
                    PM 10  
                    PM 2.5  
                    Styrene  
                    Toluene Diisocyanate

These toxics substance reduction plan summaries have been prepared to meet the regulatory requirements Section 27(1) of the Ontario Regulation 455/09.

As of June 1, 2014 I certify that I have read the report on the toxic substance reduction plans for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the reports is factually accurate and complies with the Toxics Reduction Act 2009 and Ontario Regulation 455/09 (general) made under the Act.

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## COMPANY INFORMATION

Chemtura Canada Co./ Cie.  
Elmira Facility  
25 Erb Street  
Elmira ON N3B 3A3

National Pollutant Release Inventory (NPRI) identification number: 0000002322

Ontario Regulation 127/01 identification number: 6801

Number of full-time employee equivalents: 187

North American Industry Classification System (NAICS) codes:

2 digit - 32

4 digit - 3259

6 digit - 325999

Spatial coordinates in Universal Transverse Mercator (UTM) within a North American Datum 83 (NAD83):  
(NAD83) 17-536120-4827144

## PUBLIC CONTACT

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METHANOL CAS # 67-56-1

	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	% (2013- 2011)	% (2013- 2012)
Use:	10 – 100	10 – 100	10 – 100	-50	-52.5
Created:	0	0	0		
In product:	0	0	0		
Release to air:	0 – 1	0 – 1	0 – 1	0	0
Disposed of offsite:	0	0	0		
Offsite for recycle:	0	0	0		

**Reduction options:** None identified

**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

Hydrochloric Acid CAS # 7647-01-0

	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	% (2013- 2011)	% (2013- 2012)
Use:	10 – 100	10 – 100	10 – 100	-4.0	-12.4
Created:	0	0	0		
In product:	0	0	0		
Release to air:	0 – 1	0 – 1	0 – 1	-11.5	-11.5
Disposed of offsite:	0	0	0		
Offsite for recycle:	0	0	0		

**Reduction options:** None identified

**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



**TOLUENE CAS # 108-88-3**

	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	% (2013- 2011)	% (2013- 2012)
Use:	101 – 1000	100 – 1,000	100 – 1,000	9.7	36.6
Created:	0	0	0		
In product:	0	0 - 1	0 - 1	73.7	21.0
Release to air:	10 – 100	10 -100	10 -100	46.7	7.7
Disposed of offsite:	100 - 1000	100 – 1,000	100 – 1,000	-2.7	32.3
Offsite for recycle:	0	0	0		

**Reduction options:** Equipment or process modifications and training

**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.**

Installed new process control system. Additional modifications are ongoing.

**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

**ACETONE CAS # 67-64-1**

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	100 – 1,000	100 – 1,000	17.8
Created:	0	0	
In product:	0	0	
Release to air:	0 - 1	0 – 1	0.00
Disposed of offsite:	1 -10	1 -10	21.7
Offsite for recycle:	0	0	

**Reduction options:** Instrument control improvements

**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.**

Segregated some waste acetone for reused on site. Remainder of waste acetone cannot be segregated.

**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

AMMONIA CAS # NA-16

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	100 – 1,000	100 – 1,000	2.0
Created:	0	0	
In product:	0	0	
Release to air:	0 - 1	0 - 1	1.41
Disposed of offsite:	100 -1,000	100 -1,000	-6.0
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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

ANILINE CAS # 62-53-3

	2012 (tonnes)	2013 (tonnes)	% (2012- 2013)
Use:	0 – 1	0 - 1	79.7
Created:	10 – 100	10 – 100	-12.1
In product:	0	0	
Release to air:	0 – 1	0 – 1	-550
Disposed of offsite:	10 -100	10 -100	-10.9
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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

DIPHENYLAMINE CAS # 122-39-4

	2012 (tonnes)	2013 (tonnes)	% (2013-2012)
Use:	1,000 – 10,000	1,000 – 10,000	-2.7
Created:	0	0	
In product:	100 – 1,000	100-1,000	-9.7
Release to air:	0 - 1	0 – 1	4.7
Disposed of offsite:	10 -100	10 -100	69.4
Offsite for recycle:	1 - 10	1 - 10	0

**Reduction options:** None identified

**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

ETHYLENE GLYCOL CAS # 107-21-1

	2012 (tonnes)	2013 (tonnes)	% (2013-2012)
Use:	100 – 1,000	100 – 1,000	5.2
Created:	0	0	
In product:	100 – 1,000	100-1,000	0.8
Release to air:	0 - 1	0 – 1	0
Disposed of offsite:	1 - 10	0 - 1	-438
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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



	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	10 – 100	100 – 1,000	37.5
Created:	0	0	
In product:	0	0	
Release to air:	1 - 10	1 – 10	8.1
Disposed of offsite:	10 -100	10 -100	24.5
Offsite for recycle:	0	0	

**Reduction options:** Equipment or process modifications and training

**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.**

Continuing equipment modifications

**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

PM 10

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	0	0	
Created:	10 – 100	10 – 100	16.9
In product:	0	0	
Release to air:	1 – 10	1 – 10	2.1
Disposed of offsite:	0	0	
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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



PM 2.5

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	0	0	
Created:	10 – 100	10 – 100	0
In product:	0	0	
Release to air:	1 - 10	1 – 10	0
Disposed of offsite:	0	0	
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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

PHTHALIC ANHYDRIDE CAS # 85-44-9

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	10 – 100	10 – 100	18.4
Created:	0	0	
In product:	10 – 100	10 - 100	13.9
Release to air:	0 - 1	0 - 1	0
Disposed of offsite:	0	1 - 10	100
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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

STYRENE CAS # 100-42-5

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	10 – 100	10 – 100	-38.6
Created:	0	0	
In product:	0	0	
Release to air:	0 - 1	0 - 1	0
Disposed of offsite:	0	0	
Offsite for recycle:	0	0	

**Reduction options:** None identified

**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

Toluene Diisocyanate CAS # 584-84-9

	2012 (tonnes)	2013 (tonnes)	% (2013- 2012)
Use:	10 – 100	0	-100
Created:	0	0	
In product:	10 – 100	0	-100
Release to air:	0 - 1	0	-100
Disposed of offsite:	0	0	
Offsite for recycle:	0	0	

**Reduction options:** Substance is no longer used on site