



CHEMTURA CANADA CO./CIE

West Hill, Ontario

**Annual Toxics Reduction Public Report  
Reporting Year 2014**

June 1, 2015

## INTRODUCTION

Chemtura Canada Co./Cie West Hill manufactures lubricant additives, fuel additives and lubricating greases. 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 these substances with minimal environmental impact.

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

Phase 1 -     Methanol  
                  Sulphuric Acid

Phase 2 -     PM 2.5  
                  PM 10  
                  Naphtha

These substance reduction plan summaries have been prepared to meet the regulatory requirements under Section 27(1) of 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 substances listed above. I am familiar with their contents and to my knowledge the information contained within the report 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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Helder Botelho  
Hub Manufacturing Manager

## **COMPANY INFORMATION**

Canadian Parent: Chemtura Canada Co./Cie.  
West Hill Facility  
565 Coronation Drive  
West Hill, ON M1E 2K3

National Pollutant Release Inventory (NPRI) identification number: 0000003553

Number of full-time employee equivalents: 86

North American Industry Classification System (NAICS) codes:  
2 digit - 32  
4 digit – 3251  
6 digit – 325189

Spatial coordinates in Universal Transverse Mercator (UTM) within a North American Datum 83 (NAD83):  
17-647825-4847189

## **PUBLIC CONTACT**

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## METHANOL

CAS # 67-56-1

	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)	% (2014- 2011)	% (2014- 2012)	% (2014- 2013)
Use	208	189.296	230.83	241.769	16	28	5
Created	0	0	0	0	0	0	0
In Product	0	0.93	1.51	1.51	100	62	0
Release to air	164.91	161.7	161.654	161.654	-2	0	0
Disposed of offsite	3.23	2.68	2.944	2.873	-11	7	-2
Offsite for Treatment	38.53	23.7	34.739	51.273	33	116	48
Offsite for recycled	0.040	0.070	0.182	0	-100	-100	-100

**Reduction options:**

- Spill & leak prevention
- Improved inventory or purchasing techniques
- Training or improved operating practices

**Summary of steps taken during the previous calendar year to implement the plan and a summary of the reductions achieved as a result of the steps taken.**

Improved Operating Practices: Completed Part 1 of reusing material from process back into process. Equipment modifications have been completed to have material is collected in a storage tank for use in the process.

Training: had several additional operators trained as refrigeration operators.

**Summary of additional actions taken during the previous calendar year that impacted the substance, and a summary of the steps and 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

## SULPHURIC ACID

CAS # 7664-93-9

	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)	% (2014- 2011)	% (2014- 2012)	% (2014- 2013)
Use	8797	3489.5	3588.47	3579.58	-59	3	0
Created	0.002	0	0	0	-100	0	0
In Product	0	0	0	0	0	0	0
Release to air	0.002	0.002	0.002	0.001	-50	-50	-50
Disposed of offsite	0	0	0	0	0	0	0
Offsite for Treatment	0	0	0	0	0	0	0
Offsite for recycled	3545	3188.24	3381.69	3423.85	-3	7	1

**Reduction options:**

- Equipment or process modification
- On-site reuse or recycling
- Improved inventory or purchasing techniques
- Training or improved operating practices

**Summary of steps taken during the previous calendar year to implement the plan and a summary of the reductions achieved as a result of the steps taken.**

None

**Summary of additional actions taken during the previous calendar year that impacted the substance, and a summary of the steps and 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 2.5

CAS # NA - M10

	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)	% (2014- 2012)	% (2014- 2013)
Use	0	0	0.000	0	0
Created	1.36	1.21	0.459	-66	-62
In Product	0	0	0.000	0	0
Release to air	1.36	1.21	0.459	-66	-62
Disposed of offsite	0	0	0.000	0	0
Offsite for Treatment	0	0	0.000	0	0
Offsite for recycled	0	0	0.000	0	0

**Reduction options:**

- On-site reuse or recycling
- Training or improved operating practices

**Summary of steps taken during the previous calendar year to implement the plan and a summary of the reductions achieved as a result of the steps taken.**

None

**Summary of additional actions taken during the previous calendar year that impacted the substance, and a summary of the steps and reductions achieved as a result of those actions.**

Replaced inefficient boiler heating with new energy efficient HVACs in the main office building.

**Summary of differences between steps taken and those set out in the plan.**

Reduced PM 2.5 by more than half the emissions previously.

**Description of amendments to the plan.**

Replaced inefficient boiler heating with new energy efficient HVACs in the main office building.

PM 10

CAS # NA - M09

	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)	% (2014- 2012)	% (2014- 2013)
Use	0	0	0.000	0	0
Created	1.23	1.23	0.465	-62	-62
In Product	0	0	0.000	0	0
Release to air	1.23	1.23	0.465	-62	-62
Disposed of offsite	0	0	0.000	0	0
Offsite for Treatment	0	0	0.000	0	0
Offsite for recycled	0	0	0.000	0	0

**Reduction options:**

- On-site reuse or recycling
- Training or improved operating practices

**Summary of steps taken during the previous calendar year to implement the plan and a summary of the reductions achieved as a result of the steps taken.**

None

**Summary of additional actions taken during the previous calendar year that impacted the substance, and a summary of the steps and reductions achieved as a result of those actions.**

Replaced inefficient boiler heating with new energy efficient HVACs in the main office building.

**Summary of differences between steps taken and those set out in the plan.**

Reduced PM 10 by more than half the emissions previously.

**Description of amendments to the plan.**

Replaced inefficient boiler heating with new energy efficient HVACs in the main office building.

Solvent naphtha  
light aliphatic

CAS # 64742-89-8

	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)	% (2014- 2012)	% (2014- 2013)
Use	403.101	398.99	397.008	-2	0
Created	0	0	0.000	0	0
In Product	19.827	19.827	20.254	2	2
Release to air	146.3	204.984	204.984	40	0
Disposed of offsite	62.38	68.529	65.830	6	-4
Offsite for Treatment	0	0	0.000	0	0
Offsite for recycled	123.162	137.069	131.424	7	-4

**Reduction options:**

- Product Design or Reformulation
- Equipment or Process Modification
- On-site reuse or recycling
- Training or improved operating practices

**Summary of steps taken during the previous calendar year to implement the plan and a summary of the reductions achieved as a result of the steps taken.**

Product Design or Reformulation: increased active ingredient in product which reduces waste product. 1 tonne reduction offsite disposal.

Equipment or Process Modification: optimized operation of equipment to recover and reuse more material. 2 tonne reduction in offsite disposal.

Improved Operating Practices: all tanks are in a mechanical integrity program and all tanks have had inspections completed. This decreases the potential for spills and leaks.

**Summary of additional actions taken during the previous calendar year that impacted the substance, and a summary of the steps and 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