

**Toxics Reduction Plan Summary for Chemtura  
(West Hill)**  
**(Prepared in Compliance with  
the Toxics Reduction Act, 2009 & Ontario Regulation 455/09)**

December 2012

Ref: 3106-04

Prepared for:



Chemtura Canada Co.  
West Hill, Ontario

Prepared by:



**Enviro-Stewards**  
Engineers & Scientists

Enviro-Stewards Inc.  
1 Union Street  
Elmira, Ontario

BASIC FACILITY INFORMATION		
<b>Substance name(s) &amp; CAS No.(s)</b>	<b>Substance Name</b>	<b>CAS No.</b>
	Sulphuric acid	7664-93-9
	Methanol	67-56-1
<b>NPRI ID No.</b>	3553	
<b>O. Reg 127/01 ID No.</b>	-	
<b>Legal name of owner</b>	Chemtura Canada Co. Cie. - West Hill	
<b>Trade name of owner</b>	-	
<b>Legal name of operator (if different)</b>	-	
<b>Trade name of operator (if different)</b>	-	
<b>Mailing address of owner</b>	565 Coronation Drive, West Hill, ON M1E 2K3	
<b>Mailing address of operator (if different)</b>	-	
<b>2-digit NAICS code</b>	32	
<b>4-digit NAICS code</b>	3251	
<b>6-digit NAICS code</b>	325189	
<b>Spatial coordinates (UTM &amp; NAD83)</b>	Latitude: 43.7630 Longitude: -79.1635 Datum: 1983 UTM: 17-647825-4847189	
<b>Parent Company (if applicable)</b>	-	
<b>Legal name</b>	-	
<b>Mailing address (if different from facility)</b>	-	
<b>Percent owned by parent company</b>	-	
<b>Canada Customs &amp; Revenue Agency No.</b>	-	
<b>Mailing address</b>	-	
TECHNICAL CONTACT		
<b>Name</b>	Srimalka Miskin	
<b>Position</b>	EHSS Manager	
<b>Phone number</b>	(416) 724-3617	
<b>Email</b>	<a href="mailto:srimalka.miskin@chemtura.com">srimalka.miskin@chemtura.com</a>	
<b>Mailing address (if different)</b>	-	
PERSON WHO COORDINATED THE PLAN		
<b>Name</b>	Lloyd Hipel	
<b>Position</b>	Project Manager	
<b>Phone number</b>	(519) 578-5100	
<b>Email</b>	<a href="mailto:lhipel@enviro-stewards.com">lhipel@enviro-stewards.com</a>	
<b>Mailing address (if different)</b>	1 Union Street, Elmira, ON N3B 3J9	
PERSON WHO PREPARED THE PLAN		
<b>Name</b>	Lloyd Hipel	
<b>Position</b>	Project Manager	
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**HIGHEST RANKING EMPLOYEE**

<b>Name</b>	Mark Timbres
<b>Position</b>	Plant Manager
<b>Phone number</b>	(416) 284-1662
<b>Email</b>	<a href="mailto:Mark.timbres@chemtura.com">Mark.timbres@chemtura.com</a>
<b>Mailing address (if different)</b>	-

**PLAN SUMMARY**

<b>Substance name</b>	<b>Substance Name</b>	<b>CAS No.</b>
	Sulphuric acid	7664-93-9
<b>Statement of Intent &amp; Objectives</b>	Chemtura intends to reduce the use of sulphuric acid through equipment or process modification, onsite reuse, improved inventory techniques, and through improved operating practices.	
<b>Implementation Plan of Options</b>		
<b>Implementation Category</b>	<b>iii. Equipment or process modification</b>	
<b>Implementation Option</b>	Optimize dryer systems operations	
<b>Estimated Reduction</b>	Sulphuric acid: 2.6 tonnes/year (1%) in use	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2014 (2 years)</li> </ul>	
<b>Implementation Category</b>	<b>v. On-site reuse or recycling</b>	
<b>Implementation Option</b>	Spent acid recycle from sour oil tanks from bottom draw	
<b>Estimated Reduction</b>	Sulphuric acid: 85 tonnes/year (1%) in use	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2013 (1 year)</li> </ul>	
<b>Implementation Category</b>	<b>vi. Improved inventory or purchasing techniques</b>	
<b>Implementation Option</b>	Optimize tanker delivery to drain out as much acid as possible	
<b>Estimated Reduction</b>	Sulphuric acid: 0.5 tonnes/year (0.2%) to offsite disposal	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2013 (1 year)</li> </ul>	
<b>Implementation Category</b>	<b>vii. Training or improved operating practices</b>	
<b>Implementation Option</b>	Optimization study to increase efficiency of oleum usage	
<b>Estimated Reduction</b>	Sulphuric acid: 427 tonnes/year (5%) in use	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2014 (2 years)</li> </ul>	

**PLAN SUMMARY**

<b>Substance name</b>	<b>Substance Name</b>	<b>CAS No.</b>
	Methanol	67-56-1
<b>Statement of Intent &amp; Objectives</b>	Chemtura intends to reduce the use of methanol through spill & leak prevention, improved inventory techniques, and through training.	
<b>Implementation Plan of Options</b>		
<b>Implementation Category</b>	<b>iv. Spill &amp; leak prevention</b>	
<b>Implementation Option</b>	Reuse methanol column bottoms back into process	
<b>Estimated Reduction</b>	Methanol: 2 tonnes/yr (1%) in use & to water	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2014 (2 years)</li> </ul>	
<b>Implementation Category</b>	<b>vi. Improved inventory or purchasing techniques</b>	
<b>Implementation Option</b>	Optimize tanker delivery to drain out as much methanol as possible	
<b>Estimated Reduction</b>	Methanol: 0.3 tonnes/year (0.1%) to offsite disposal	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2013 (one year)</li> </ul>	
<b>Implementation Category</b>	<b>vii. Training or improved operating practices</b>	
<b>Implementation Option</b>	Plant-wide competency training on solvent vapour recovery system (SVR) and methanol column operation.	
<b>Estimated Reduction</b>	Methanol: 2 tonnes/year (1%) in use & to air	
<b>Dates for achieving reduction</b>	<ul style="list-style-type: none"> <li>Reductions should be achieved in 2014 (2 years)</li> </ul>	

### Highest Ranking Employee Certification

As of December 21, 2012 I, Mark Timbres, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below 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 that Act.

- Methanol, sulphuric acid

X Mark Timbres

### Toxics Reduction Planner Certification

As of December 20, 2012,

I, Lloyd Hipel certify that I am familiar with the processes at Chemtura (West Hill) that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 2012 and that the plan complies with that act and Ontario Regulation 455/09 (General) made under that Act.

- Methanol, sulphuric acid

X Lloyd Hipel

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