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## **Toxic Reduction Act**

### **Owens Corning Composite Materials Canada LP Guelph Facility Toxics Reduction Plan Summary**

## **Hydrochloric Acid**

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**December 20, 2012**

## **Introduction**

The Province of Ontario developed a Toxics Reduction Strategy that included the introduction of the Toxics Reduction Act, 2009 to reduce toxic substances created or used in manufacturing processes. Owens Corning Composite Materials Canada LP – Guelph Facility has prepared the mandated Toxic Reduction Plans for applicable substances under the Toxics Reduction Act.

The toxics substance reduction plan summary presented in this report have been prepared to meet the regulatory obligations specified in Section 8 of the Act and has been prepared in accordance with the requirements of s. 24 of Ontario Regulation (O. Reg.) 455/09, as amended from time to time. It meets the relevant reporting requirements and will be updated, as required by the Act and O. Reg. 455/09.

## Toxic Reduction Plan Summary

### Substance

Substance Name and CAS #	Hydrochloric Acid and CAS # 7647-01-0
Substances for which other plans have been prepared	Chromium and Sulphuric Acid
Beneficial Uses at Facility	Regenerator for the resin bed in the de-ionization of process water
Reasons for Use	Ancillary/other use
Reasons for use - summary statement (mandatory)	The substance is an effective regeneration acid for the de-ionized water resin bed which creates high quality DI water for the process.
Reasons for Creation	As a by-product
Reasons for creation - summary statement (mandatory)	Small amounts of hydrogen chloride are created in the glass melting process due to the presence of trace amounts of chlorides in the raw materials.

### Facility Information

Company Name	Owens Corning Composite Materials Canada LP
Facility Name	Guelph Glass Plant
Facility Physical Address	247 York Road, Guelph, ON N1H 6P6
Facility Mailing Address	Same as physical address
Spatial Coordinates of Facility	562054 Easting; 4821622 Northing
Number of Employees	210
NPRI ID	3287
Ontario MOE (R.127)ID Number	None assigned
2 Digit NAICS Code	32
4 Digit NAICS Code	3272
6 Digit NAICS Code	327214

### Parent Company Information

Parent Company Name	OC Canada Holdings Company
Address	3450 McNicoll Avenue, Scarborough ON, CANADA, M1V 1Z5
Percent Ownership (if available)	99.99%
Business Number	101790921

### Parent Company Information

Parent Company Name	Owens Corning Composite Materials Canada GP Inc.
Address	900-400 St. Mary Avenue, Winnipeg, Manitoba, CANADA, R3C 4K5
Percent Ownership (if available)	0.01%
Business Number	842450363

*Date of Plan: December 20, 2012*

**Facility Contact**

Public Contact	Rob Nixon
Position	Maintenance & Engineering Leader
Address	247 York Street, Guelph, ON, CANADA, N1E 3G4
email	Robert.D.Nixon@owenscorning.com
Phone	519-823-7219
Fax	519-823-7204

## **Statement of Intent**

Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of hydrochloric acid in full compliance with all Federal and Provincial Regulations.

## **Plan Objectives**

Our goal is to reduce the amount of hydrochloric acid used at our facility.

### **Description of Substance**

Hydrochloric Acid is used to regenerate the resin beds of the water de-ionization system. Small amounts of hydrogen chloride gas is formed in the glass melting furnace due to the presence of trace amounts of chlorides in the raw materials.

### **Description of Previously Implemented Reduction Opportunities:**

- An HCl vapour alarm has been installed in the De-ionization room to allow for quick identification and repair of any HCl leaks
- Changed from injection pumps to diaphragm pumps in the De-ionization and chemical prep area to reduce leaks

### **Plan Summary Statement**

This plan summary accurately reflects the content of the toxic substance reduction plan for hydrochloric acid, prepared by Owens Corning Composite Materials Canada LP - Guelph Glass Plant, dated December 20, 2012.

**Toxic Substance Reduction Option(s) To Be Implemented**

The following options have been identified for implementation to reduce the use, creation, or releases of hydrochloric acid:

		Used	Created	Contained in Product	On-Site Releases to Air	On-Site Releases to Water	On-Site Releases to Land	Disposal On-Site	Disposal Off-Site	Transfer Off-Site for Recycling
Option Description:	Use hot tap water instead of DI water for any activities that don't impact product quality (ie. Chem prep area heating of waxy materials)									
Estimated Reductions due to Option Implementation	tonnes	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	%	2.49%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Timeline for Reductions	Years	1	NA							
Option Description:	Refine the procedure for providing annual usage information for reporting to ensure the facility is reporting 'used' vs. 'purchased' due to bulk loading.									
Estimated Reductions due to Option Implementation	tonnes	0.0000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	%	0.00%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Timeline for Reductions	Years	1	NA							

### **Certification by Highest Ranking Employee**

As of December 20, 2012, I, Charles White, certify that I have read the toxic substance reduction plan for the toxic substance 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.

Toxic Substance: **hydrochloric acid**



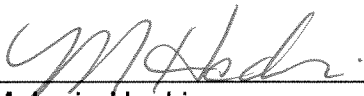
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Charles White  
Plant Manager  
Owens Corning Composite Materials Canada LP - Guelph Glass Plant

### **Certification by Licensed Planner**

As of December 20, 2012, I, Melanie Hockin certify that I am familiar with the processes at Owens Corning Composite Materials Canada LP - Guelph Glass Plant that use or create the toxic substance, 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 20, 2012 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substance: **hydrochloric acid**



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Melanie Hockin  
Toxic Substance Reduction Planner  
License Number: TSRP0140  
LEHDER Environmental Services Limited

*Date of Plan: December 20, 2012*