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## **Toxic Reduction Act**

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

## **Chromium**

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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 #	Chromium and CAS # N/A
Substances for which other plans have been prepared	Hydrochloric acid and Sulphuric acid
Beneficial Uses at Facility	Present in chromic oxide refractory of furnace and channels to provide sufficient durability.
Reasons for Use	Ancillary/other use
Reasons for use - summary statement (mandatory)	Chromic oxide refractory is used in select parts of the furnace and channels subject to the most erosion potential because the chromic oxide provides sufficient durability.
Reasons for Creation	This substance is not created at the facility
Reasons for creation - summary statement (mandatory)	N/A

### 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 Holding Company
Address	3450 McNicoll Ave, Scarorough 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

*Date of Plan: December 20, 2012*

## **Statement of Intent**

Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Owens Corning does not intend to further reduce the use of chromium because of the success of previously implemented reduction efforts. Whenever feasible, we will eliminate, or reduce the use, creation and discharge of chromium in full compliance with all Federal and Provincial Regulations.

## **Plan Objectives**

While Owens Corning Composite Materials Canada LP - Guelph Glass Plant does not intend to reduce the use of chromium at the facility, the plan was developed with the following objectives:

- we will continue to operate in full compliance with all environmental regulations; and
- we will continue to manage releases of chromium through current and future pollution prevention and best management practices.

## **Description of Substance**

Chromium is used in some of the refractory brick lining the furnace and forehearth channels. The Chromic oxide content contributes to the durability of the brick and prolongs the life of the structures containing molten glass. Small amounts of chromium are naturally occurring in the raw materials for making glass.

## **Toxic Substance Reduction Option(s) to be Implemented**

For the purposes of the Toxics Reduction Act, the Owens Corning Composite Materials Canada LP Guelph Glass Facility will not be implementing any options to reduce the use of chromium because the facility has already implemented available technically feasible options to reduce the use, disposal and release of chromium as identified below:

- Minimizing refractory change-outs by using water jackets in furnace and channels to maximize life span for all refractory.
- Increasing time between bushing block changes due to natural cooling. Natural cooling prevents thermal shock and maintains integrity of bushing block for re-use. Now change bushing block every 5 bushing changes instead of each bushing change.
- Facility has taken some measures to control forehearth/channel pressure control and excess oxygen by operator training to prevent degradation of refractory.
- Automated batch mixing system. Minimizes errors in mixing and therefore minimizes wastes and the need for additional raw materials

## **Plan Summary Statement**

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for chromium, prepared by Owens Corning Composite Materials Canada LP - Guelph Glass Plant, dated December 20, 2012.

### **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: **chromium**



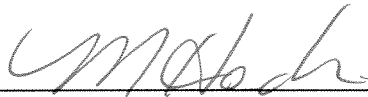
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Charles White  
Plant Manager  
Owens Corning Composite Materials Canada LP - Guelph Glass Plant

### **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: **chromium**



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

*Date of Plan: December 20, 2012*