

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Facility Information

Company Name	Owens Corning Insulating Systems Canada LP
Facility Name	Toronto Facility
Facility Physical Address	3450 McNicoll Avenue, Toronto, ON, Canada, M1V 1Z5
Facility Mailing Address	Same as physical address
Spatial Coordinates of Facility	640284Easting; 4853861Northing
Number of Employees	140
NPRI ID	1245
2 Digit NAICS Code	31-33
4 Digit NAICS Code	3279
6 Digit NAICS Code	327990

#### Parent Company Information

Parent Company Name	OC Canada Holdings Company
Address	900-1959 Upper West Street, Halifax, Nova Scotia, B3J 3N2
Percent Ownership (if available)	99.99%

#### Facility Contact

Public Contact	Jacquelyn Desloges
Position	Environmental Leader
Address	3450 McNicoll Avenue, Toronto, ON, Canada, M1V 1Z5
email	<a href="mailto:Jacquelyn.Desloges@owenscorning.com">Jacquelyn.Desloges@owenscorning.com</a>
Phone	416-412-8362
Fax	416-412-6729

#### Date of Summary

Reporting Year	2013
Summary Date	June 1, 2014

#### Toxics Substances Reported

Chromium, Formaldehyde, Manganese, Selenium, PM, PM10, PM2.5, Carbon monoxide, Phosphorus, Ethanol and Ethyl Acetate

#### Copy of Certification:

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

The original version of this report is signed off by:

**Highest Ranking Employee:** Michael Radosevic

Title: Operations Leader and Interim Plant Leader

Signature: \_\_\_\_\_

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	MANGANESE COMPOUNDS(INCLUDING PERMANGANATES)
CAS #	CAS # NA-09
Report Date:	27-May-14
Plan Date:	19-Dec-12
Plan Objectives and Targets	Our goal is to reduce manganese used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>10 to 100	10%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	>10 to 100	10%
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan.	Option identified in plan was fully implemented in reporting year.		
Summary of the toxics reductions achieved as a result of the steps taken	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	Used	31.0006	5.91%
	Created	N/A	N/A
	Contained in Product	29.0266	5.91%
	On-Site Releases to Air	0.0024	5.91%
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
	Disposal Off-Site	0.1023	5.91%
	Transfer Off-Site for Recycling	N/A	N/A
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		

# Owens Corning Insulating Systems Canada LP - Toronto Facility

## Toxics Reduction Public Summary Report

### Substance Information and Plan Objective

Substance Name	Chromium Compounds (Di-,Tri-,metallic)
CAS #	CAS # NA-04
Report Date:	27-May-14
Plan Date:	19-Dec-12
Plan Objectives and Targets	Our goal is to reduce chromium used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	>1 to 10	20%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	>1 to 10	12%
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

### Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan.	Option identified in plan was fully implemented in reporting year.		
Summary of the toxics reductions achieved as a result of the steps taken	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	Used	0.0009	0.003%
	Created	N/A	N/A
	Contained in Product	0.0008	0.003%
	On-Site Releases to Air	0.000002	0.003%
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
	Disposal Off-Site	0.000003	0.003%
	Transfer Off-Site for Recycling	N/A	N/A
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		

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	SELENIUM (AND ITS COMPOUNDS)
CAS #	CAS # NA-12
Report Date:	27-May-14
Plan Date:	19-Dec-12
Plan Objectives and Targets	Our goal is to reduce selenium used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>0 to 1	>0 to 1	>0 to 1	23%
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>0 to 1	>0 to 1	>0 to 1	10%
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan.	Option identified in plan was fully implemented in reporting year.		
Summary of the toxics reductions achieved as a result of the steps taken	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	Used	0.00038	0.311%
	Created	N/A	N/A
	Contained in Product	0.0002	0.311%
	On-Site Releases to Air	0.0000005	0.311%
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
	Disposal Off-Site	0.000001	0.311%
	Transfer Off-Site for Recycling	N/A	N/A
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		

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	FORMALDEHYDE
CAS #	CAS # 50-00-0
Report Date:	27-May-14
Plan Date:	19-Dec-12
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the creation of formaldehyde, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li><input type="checkbox"/> we will continue to minimize use of Formaldehyde through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>0 to 1	> -1 to -10	-56%
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Site specific EF factors updated			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - no feasible options identified for implementation
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 - no feasible options identified for implementation
Summary of differences between steps taken and those set out in the plan.	none - no feasible options identified for implementation
Description of amendments to the plan.	none - no feasible options identified for implementation

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	Phosphorus, Total
CAS #	NA-1908
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the use of phosphorus, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize releases of phosphorus through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	> -10 to -100	-0.2
C - Created	0	0	#N/A	NA
P - In a product that leaves the process	>10 to 100	>10 to 100	> -10 to -100	-0.2
Summary of reasons for changes between current year and previous year.	Decrease in usage of phosphorus containing process materials			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	ETHANOL (ETHYL ALCOHOL)
CAS #	64-17-5
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the creation of ethanol, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize releases of ethanol through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-1
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Site specific Emission Factors updated			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	ETHYL ACETATE
CAS #	141-78-6
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	Our goal is to reduce ethyl acetate use/creation at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>1 to 10	>1 to 10	> -1 to -10	-0.3
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Decrease in usage of ethyl acetate containing process materials			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year



## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	PM
CAS #	N/A - M08
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the creation of particulate matter (pm, pm10 &amp; pm2.5), the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize releases of Particulate Matter (PM, PM10 &amp; PM2.5) through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>100 to 1000	>10 to 100	0.2
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	PM10
CAS #	N/A - M09
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the creation of particulate matter (pm, pm10 &amp; pm2.5), the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize releases of Particulate Matter (PM, PM10 &amp; PM2.5) through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>100 to 1000	>10 to 100	0.2
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	PM2.5
CAS #	N/A - M10
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	<p>While Owens Corning Insulating Systems Canada LP does not intend to reduce the creation of particulate matter (pm, pm10 &amp; pm2.5), the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize releases of Particulate Matter (PM, PM10 &amp; PM2.5) through current and future pollution prevention and best management practices.</li> </ul>

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>10 to 100	>10 to 100	0.2
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year

## Owens Corning Insulating Systems Canada LP - Toronto Facility

### Toxics Reduction Public Summary Report

#### Substance Information and Plan Objective

Substance Name	CO
CAS #	630-08-0
Report Date:	27-May-14
Plan Date:	19-Dec-13
Plan Objectives and Targets	Our goal is to reduce carbon monoxide used at our facility and to further minimize the potential for losses through continuous improvements and our commitment to best management practices.

#### Toxics Substance Accounting and Comparison

Pathways	2012	2013	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	#N/A	NA
C - Created	>10 to 100	>10 to 100	>10 to 100	0.2
P - In a product that leaves the process	0	0	#N/A	NA
Summary of reasons for changes between current year and previous year.	Increase in production levels			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

#### Progress in Implementing Plan

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 - plan was developed at end of reporting year
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 - plan was developed at end of reporting year
Summary of differences between steps taken and those set out in the plan.	none - plan was developed at end of reporting year
Description of amendments to the plan.	none - plan was developed at end of reporting year