



# **2012 TOXICS SUBSTANCE REPORT**

**Holcim (Canada) Inc. – Mississauga Cement Plant**

**2391 Lakeshore Road West  
Mississauga, ON  
L5J 1K1**

**[www.holcim.ca](http://www.holcim.ca)**



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# 1. Introduction

Commissioned in 1956, the Holcim Canada Mississauga Plant is one of the largest and most environmentally responsible suppliers of cement in Canada. The Plant employs approximately 185 people and has an annual capacity of 1.5 million tons of cement, plus 0.5 million tons of GranCem. Over the course of the last 57 years, the Mississauga Plant has undertaken ongoing technological advancements designed to meet the increasing needs of the marketplace, to improve environmental performance, to enhance employee safety and to mitigate impacts on the local community.

Holcim (Canada) Inc. is one of the country's largest vertically integrated building materials and construction companies. With 3,000 employees, Holcim (Canada) Inc. manufactures cement, aggregates and ready-mix concrete and provides construction services to many of Canada's largest infrastructure projects.

Holcim (Canada) Inc. is a member of Holcim Group, a Swiss-based multinational with operations in more than 70 countries worldwide. A leading global brand, Holcim is recognized for its long-term financial performance, its environmental leadership, corporate social responsibility and sustainable construction.

## 2. Reporting Criteria

Section 3(1) of the Toxics Reduction Act (TRA) specifies the criteria requiring the preparation of a toxic substance plan.

These criteria are as follows:

*3. (1) The owner and the operator of a facility shall ensure that a toxic substance reduction plan is prepared for a toxic substance in accordance with this Act and the regulations if all of the following criteria are met:*

*1. The facility belongs to a class of facilities prescribed by the regulations.*

*2. The number of persons employed at the facility exceeds the number of persons prescribed by the regulations.*

*3. The toxic substance is used or created at the facility and the amounts of the substance that are used or created meet the criteria prescribed by the regulations.*

*4. Such other criteria as are prescribed by the regulations. 2009, c. 19, s. 3 (1).*

Section 4(1) of O. Reg. 455/09 specifies the types of facilities subject to toxic substance reduction planning and includes facilities that begin in North American Industry Classification System (NAICS) code “31”, “32” or “33” and “212”. Holcim (Canada) Inc. – Mississauga operates under the category of “cement manufacturing”, and therefore has a NAICS code beginning with “32”.

In addition to the plan, toxics substance reporting must be conducted annually and a summary of this report must be made available for public viewing. This document summarizes the toxic substances reported as part of the TRA for the year ending 2012 by Holcim (Canada) Inc’s Mississauga Cement Plant.

- Acenaphthylene
- Acetone
- Ammonia
- Benzene
- Carbon Monoxide
- Chromium
- Dioxins and Furans
- Fluorene
- Hexachlorobenzine
- Hydrochloric Acid
- Mercury
- Nitrogen Oxides (expressed as NO<sub>2</sub>)
- Particulate Matter
- Particulate Matter ≤ 10 microns
- Particulate Matter ≤ 2.5 microns
- Phenanthrene
- Selenium
- Sulphur Dioxide
- Toluene
- Total Volatile Organic Compounds (VOCs)
- Xylene



### 3. Company Information

<b>Parent Company Name</b>	Holcim (Canada) Inc.
<b>Parent Company Address</b>	2300 Steeles Ave. West, 4 <sup>th</sup> Floor Concord, Ontario L4K 5X6
<b>Facility Name</b>	Holcim (Canada) Inc. - Mississauga
<b>Facility Address</b>	2391 Lakeshore Road West Mississauga, Ontario L5J 1K1
<b>Geographic Coordinates of Facility</b>	43.49720N, -79.62770W
<b>National Pollutant Release Inventory Identification Number</b>	2182
<b>Ontario Regulation 127/01 Identification Number</b>	5112
<b>Two Digit North American Industry Classification System (NAICS) Code</b>	32 – Manufacturing
<b>Four Digit North American Industry Classification System (NAICS) Code</b>	3273 - Cement and Concrete Product Manufacturing
<b>Six Digit North American Industry Classification System (NAICS) Code</b>	327310 - Cement Manufacturing
<b>Number of Full-time Employee Equivalents at the Facility</b>	185
<b>Facility Public Contact</b>	Greg Zilberbrant Environment Manager 2391 Lakeshore Road West Mississauga, ON L5J 1K1 905 822-1653 ext. 4371 greg.zilberbrant@holcim.com

## 4. Substance Reporting

<b>Acenaphthylene</b>	
<b>Substance Name and CAS Number</b>	Acenaphthylene, 208-96-8
<b>Used</b>	0.00 kilograms
<b>Created</b>	15.2 kilograms
<b>Contained in Product</b>	0.00 kilograms
<b>Released</b>	15.2 kilograms
<b>Destroyed</b>	0.00 kilograms

<b>Acetone</b>	
<b>Substance Name and CAS Number</b>	Acetone, 67-64-1
<b>Used</b>	217.79 tonnes
<b>Created</b>	13.8 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	13.8 tonnes
<b>Destroyed</b>	217.79 tonnes

<b>Ammonia</b>	
<b>Substance Name and CAS Number</b>	Ammonia, 16
<b>Used</b>	181 tonnes
<b>Created</b>	107 tonnes
<b>Contained in Product</b>	0 tonnes
<b>Released</b>	107 tonnes
<b>Destroyed</b>	181 tonnes

<b>Benzene</b>	
<b>Substance Name and CAS Number</b>	Benzene, 71-43-2
<b>Used</b>	23.67 tonnes
<b>Created</b>	2.7 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	2.7 tonnes
<b>Destroyed</b>	23.67 tonnes

<b>Carbon Monoxide</b>	
<b>Substance Name and CAS Number</b>	Carbon monoxide, 630-08-0
<b>Used</b>	0 tonnes
<b>Created</b>	5475 tonnes
<b>Contained in Product</b>	0 tonnes
<b>Released</b>	5475 tonnes
<b>Destroyed</b>	0 tonnes

<b>Chromium</b>	
<b>Substance Name and CAS Number</b>	Chromium, 744-47-3
<b>Used</b>	61.63 tonnes
<b>Created</b>	0.00 tonnes
<b>Contained in Product</b>	47.77 tonnes
<b>Released</b>	0.013 tonnes
<b>Destroyed</b>	0.00 tonnes

<b>Dioxins and Furans</b>	
<b>Substance Name and CAS Number</b>	Dioxins and Furans
<b>Used</b>	Below level of quantification
<b>Created</b>	Below level of quantification
<b>Contained in Product</b>	Below level of quantification
<b>Released</b>	Below level of quantification
<b>Destroyed</b>	Below level of quantification

<b>Fluorene</b>	
<b>Substance Name and CAS Number</b>	Fluorene, 86-73-7
<b>Used</b>	0.00 kilograms
<b>Created</b>	8.1 kilograms
<b>Contained in Product</b>	0.00 kilograms
<b>Released</b>	8.1 kilograms
<b>Destroyed</b>	0.00 kilograms

<b>Hexachlorobenzene</b>	
<b>Substance Name and CAS Number</b>	Hexachlorobenzene, 118-74-1
<b>Used</b>	0.00 grams
<b>Created</b>	30.1 grams
<b>Contained in Product</b>	0.00 grams
<b>Released</b>	30.1 grams
<b>Destroyed</b>	0.00 grams



<b>Hydrochloric Acid</b>	
<b>Substance Name and CAS Number</b>	Hydrochloric Acid, 7647-01-0
<b>Used</b>	0.00 tonnes
<b>Created</b>	43.5 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	43.5 tonnes
<b>Destroyed</b>	0.00 tonnes

<b>Mercury</b>	
<b>Substance Name and CAS Number</b>	Mercury, 7439-97-6
<b>Used</b>	28.62 kilograms
<b>Created</b>	0.00 kilograms
<b>Contained in Product</b>	14.68 kilograms
<b>Released</b>	17.1 kilograms
<b>Destroyed</b>	0.00 kilograms

<b>Nitrogen oxides (expressed as NO<sub>2</sub>)</b>	
<b>Substance Name and CAS Number</b>	Nitrogen oxides, 11104-93-1
<b>Used</b>	0 tonnes
<b>Created</b>	2313 tonnes
<b>Contained in Product</b>	0 tonnes
<b>Released</b>	2313 tonnes
<b>Destroyed</b>	0 tonnes

<b>Particulate Matter – Total (PM)</b>	
<b>Substance Name and CAS Number</b>	Total Particulate Matter, M08
<b>Used</b>	81977 tonnes
<b>Created</b>	0 tonnes
<b>Contained in Product</b>	N/A *
<b>Released</b>	115 tonnes
<b>Destroyed</b>	0 tonnes

<b>Particulate Matter &lt;= 10 Microns (PM10)</b>	
<b>Substance Name and CAS Number</b>	PM10, M09
<b>Used</b>	27834 tonnes
<b>Created</b>	0 tonnes
<b>Contained in Product</b>	N/A *
<b>Released</b>	53 tonnes
<b>Destroyed</b>	0 tonnes

<b>Particulate Matter &lt;= 2.5 Microns (PM2.5)</b>	
<b>Substance Name and CAS Number</b>	PM2.5, M10
<b>Used</b>	8810 tonnes
<b>Created</b>	0 tonnes
<b>Contained in Product</b>	N/A *
<b>Released</b>	28 tonnes
<b>Destroyed</b>	0 tonnes

\*Quantification for the amount of the substance that is contained in product is not required for Criteria Air Contaminants (Part 4 of NPRI Schedule 1).

<b>Phenanthrene</b>	
<b>Substance Name and CAS Number</b>	Phenanthrene, 85-01-8
<b>Used</b>	0.0 kilograms
<b>Created</b>	44.4 kilograms
<b>Contained in Product</b>	0.0 kilograms
<b>Released</b>	44.4 kilograms
<b>Destroyed</b>	0.0 kilograms

<b>Selenium</b>	
<b>Substance Name and CAS Number</b>	Selenium, 7782-49-2
<b>Used</b>	3.01 tonnes
<b>Created</b>	0.00 tonnes
<b>Contained in Product</b>	2.42 tonnes
<b>Released</b>	0.05 tonnes
<b>Destroyed</b>	0.00 tonnes

<b>Sulphur dioxide</b>	
<b>Substance Name and CAS Number</b>	Sulphur dioxide, 7446-09-5
<b>Used</b>	0 tonnes
<b>Created</b>	1558 tonnes
<b>Contained in Product</b>	0 tonnes
<b>Released</b>	1558 tonnes
<b>Destroyed</b>	0 tonnes

<b>Toluene</b>	
<b>Substance Name and CAS Number</b>	Toluene, 108-88-3
<b>Used</b>	2159.11 tonnes
<b>Created</b>	2.6 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	2.6 tonnes
<b>Destroyed</b>	2159.11 tonnes

<b>Total VOCs</b>	
<b>Substance Name and CAS Number</b>	Volatile Organic Compounds
<b>Used</b>	5547.12 tonnes
<b>Created</b>	15.40 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	15.40 tonnes
<b>Destroyed</b>	5547.12 tonnes

<b>Xylene</b>	
<b>Substance Name and CAS Number</b>	Xylene, 1330-20-7
<b>Used</b>	1846.84 tonnes
<b>Created</b>	3.1 tonnes
<b>Contained in Product</b>	0.00 tonnes
<b>Released</b>	3.1 tonnes
<b>Destroyed</b>	1846.84 tonnes