



2013 TOXICS SUBSTANCE REPORT

Holcim (Canada) Inc. – Mississauga Cement Plant

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

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 58 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 2013 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 NO₂)
- 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

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

4. Substance Reporting

Acenaphthylene	
Substance Name and CAS Number	Acenaphthylene, 208-96-8
Used	1402 kilograms
Created	5 kilograms
Contained in Product	0.00 kilograms
Released	5 kilograms
Destroyed	1402 kilograms

Acetone	
Substance Name and CAS Number	Acetone, 67-64-1
Used	524 tonnes
Created	14 tonnes
Contained in Product	0.00 tonnes
Released	14 tonnes
Destroyed	524 tonnes

Ammonia	
Substance Name and CAS Number	Ammonia, 16
Used	251 tonnes
Created	100 tonnes
Contained in Product	0 tonnes
Released	100 tonnes
Destroyed	251 tonnes

Benzene	
Substance Name and CAS Number	Benzene, 71-43-2
Used	18 tonnes
Created	4 tonnes
Contained in Product	0.00 tonnes
Released	4 tonnes
Destroyed	18 tonnes

Carbon Monoxide	
Substance Name and CAS Number	Carbon monoxide, 630-08-0
Used	0 tonnes
Created	2780 tonnes
Contained in Product	0 tonnes
Released	2780 tonnes
Destroyed	0 tonnes

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

Fluorene	
Substance Name and CAS Number	Fluorene, 86-73-7
Used	2191 kilograms
Created	7 kilograms
Contained in Product	0.00 kilograms
Released	7 kilograms
Destroyed	2191 kilograms

Hexachlorobenzene	
Substance Name and CAS Number	Hexachlorobenzene, 118-74-1
Used	0.00 grams
Created	56 grams
Contained in Product	0.00 grams
Released	56 grams
Destroyed	0.00 grams

Hydrochloric Acid	
Substance Name and CAS Number	Hydrochloric Acid, 7647-01-0
Used	0.00 tonnes
Created	55 tonnes
Contained in Product	0.00 tonnes
Released	55 tonnes
Destroyed	0.00 tonnes

Mercury	
Substance Name and CAS Number	Mercury, 7439-97-6
Used	37 kilograms
Created	0.00 kilograms
Contained in Product	19 kilograms
Released	19 kilograms
Destroyed	0.00 kilograms

Nitrogen oxides (expressed as NO2)	
Substance Name and CAS Number	Nitrogen oxides, 11104-93-1
Used	0 tonnes
Created	2034 tonnes
Contained in Product	0 tonnes
Released	2034 tonnes
Destroyed	0 tonnes



Particulate Matter – Total (PM)	
Substance Name and CAS Number	Total Particulate Matter, M08
Used	66431 tonnes
Created	0 tonnes
Contained in Product	N/A *
Released	121 tonnes
Destroyed	0 tonnes

Particulate Matter <= 10 Microns (PM10)	
Substance Name and CAS Number	PM10, M09
Used	23640 tonnes
Created	0 tonnes
Contained in Product	N/A *
Released	49 tonnes
Destroyed	0 tonnes

Particulate Matter <= 2.5 Microns (PM2.5)	
Substance Name and CAS Number	PM2.5, M10
Used	7308 tonnes
Created	0 tonnes
Contained in Product	N/A *
Released	26 tonnes
Destroyed	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).

Phenanthrene	
Substance Name and CAS Number	Phenanthrene, 85-01-8
Used	4396 kilograms
Created	26 kilograms
Contained in Product	0.0 kilograms
Released	26 kilograms
Destroyed	4396 kilograms

Sulphur dioxide	
Substance Name and CAS Number	Sulphur dioxide, 7446-09-5
Used	0 tonnes
Created	2138 tonnes
Contained in Product	0 tonnes
Released	2138 tonnes
Destroyed	0 tonnes

Toluene	
Substance Name and CAS Number	Toluene, 108-88-3
Used	1990 tonnes
Created	4 tonnes
Contained in Product	0.00 tonnes
Released	4 tonnes
Destroyed	1990 tonnes

Total VOCs	
Substance Name and CAS Number	Volatile Organic Compounds
Used	6230 tonnes
Created	16 tonnes
Contained in Product	0.00 tonnes
Released	16 tonnes
Destroyed	6230 tonnes

Xylene	
Substance Name and CAS Number	Xylene, 1330-20-7
Used	1791 tonnes
Created	2 tonnes
Contained in Product	0.00 tonnes
Released	2 tonnes
Destroyed	1791 tonnes